





Right Elevation



Kitchen Cabinets





1	I	I
2'-3"	2'-3"	2'-0"
، ،	 →	
	6-6"	-

FIRST FLOOR OPENING SCHEDULE					
PRODUCT CODE	SIZE	HINGE	COUNT		
36X80 COLONIAL A 1	3'-0"	L	1		
192X84 - 8 PANEL - 4 GRILLED WINDOW	18'-0"	u	1		
60X80 SLIDING FRENCH 2	5'-0"	NN	1		
48×80 BIFOLD COLONIAL 2	4'-0"	LR	1		
2-0 Door Unit	2'-0"	R	1		
2-0 Door Unit	2'-0"	L	2		
2-8 Door Unit	2'-8"	R	1		
2-0 DOOR UNIT	2'-0"	L	1		
2-4 DOOR UNIT	2'-4"	L	1		
2-6 DOOR UNIT	2'-6"	L	1		
2-8 DOOR UNIT	2'-8"	R	1		
28×32 Single	2'-8" × 3'-0"	N	1		
28×52 Single	2'-8" × 5'-0"	N	2		
20x32 single	2'-0" × 3'-2"	N	1		
28x52 single	2'-8" × 5'-2"	N	5		
8X8 GLASS BLOCK	4'-0" × 4'-0"	N	1		

Areas

First Floor	1460
Second Floor	853
	=======
Total Heated	2313
Garage	501
Porch	125

First Floor Plan Scale: 1/4"= 1'-0"

REVISED DRAWING*

The Caroline



SCALE 1/4"	DAT	Έ Friday, July 2, 2021	Bass Designs
DRAWN BY	REV	(BED	Linden N.C. 28356
APPROVED	DRA	↓UUNG#	910-864-1253

Second Floor Openings

OPENING SCHEDULE							
PRODUCT CODE	SIZE	HINGE	COUNT				
1-6 Door Unit	1'-6"	L	1				
2-0 Door Unit	2'-0"	L	1				
2-6 Door Unit	2'-6"	R	2				
2-6 Door Unit	2'-6"	L	1				
3-0 Doublehung Door Unit	3'-0"	LR	2				
4-0 Doublehung Door Unit	4'-0"	LR	1				
2-4 Door Unit	2'-4"	R	1				
2-0×2-0 Twin	4'-0" × 2'-0"	NA	1				
2-8×5-2 Single	2'-8" × 5'-2"	N	1				
2-8×5-2 Twin	5'-4" × 5'-2"	NA	2				











Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0822-4066 Lot 5 Liberty Meadows

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: I53588288 thru I53588309

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



August 11,2022

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







Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows	
					l. I	53588289
J0822-4066	A1GE	GABLE	1	1		
					Job Reference (optional)	
Comtech, Inc, Fayette	ville, NC - 28314,		. 8.4	30 s Aug 1	6 2021 MiTek Industries, Inc. Wed Aug 10 10:56:19 2022 P	age 2

NOTES-

ID:Mxo2zT_1o8v8CIEXCBvR1ayxNUw-GkvhNGbR4XDQoVSLgYLRICgj1_Kvo71XmB5JJPypGnQ

- 9) * 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.
- 10) Ceiling dead load (10.0 psf) on member(s). 44-47, 46-47, 45-46, 45-52, 52-53, 18-53; Wall dead load (5.0psf) on member(s).37-44, 18-34, 33-56, 22-30 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 40, 31, 26, 39, 41, 42, 43, 32, 30, 29, 28 except
- (jt=lb) 38=970, 33=929.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer. 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.

















F	10-9-8				21-7	-0		
Plate Offsets (X,Y)	[1:0-1-14,0-1-8], [2:0-2-8,0-2-6], [3:0-2-6]	8,0-2-6]			10-9	-8		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.41 BC 0.51 WB 0.09 Matrix-S	DEFL. i Vert(LL) -0.0 Vert(CT) -0.1 Horz(CT) 0.0 Wind(LL) 0.0	n (loc) 3 4-7 6 4-7 2 4 3 4-7	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 130 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 S BOT CHORD 2x6 S WEBS 2x4 S	SP No.1 SP No.1 SP No.2		BRACING- TOP CHORD BOT CHORD	Struct 2-0-0 Rigid	ural wood oc purlins ceiling dire	sheathing di (6-0-0 max.) ectly applied	rectly applied or 6-0-0 o : 2-3. or 10-0-0 oc bracing.	oc purlins, except
REACTIONS. (s Max Max	ize) 1=0-3-8, 4=0-3-8 Horz 1=-122(LC 10) Grav 1=923(LC 19), 4=975(LC 20)							
FORCES. (lb) - Ma TOP CHORD 1-2 BOT CHORD 1-7 WEBS 2-7	x. Comp./Max. Ten All forces 250 (lb) ol =-1170/186, 2-3=-986/207, 3-4=-1170/18; =-14/931, 4-7=-15/892 =0/369, 3-7=0/370	less except when shown. 2						
NOTES- 1) Unbalanced roof li 2) Wind: ASCE 7-10:	ive loads have been considered for this de Vult=130mph Vasd=103mph: TCDL=6.0	esign. bsf: BCDL=6.0psf: h=15ft: C	at. II: Exp B: Enclose	d: MWFF	RS (envel	(eqc		

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 8-9-8, Exterior(2) 8-9-8 to 19-0-3, Interior(1) 19-0-3 to 22-4-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







	7-7-8 7-7-8	14-9-8 7-2-0		-	21-7-0 6-9-8
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. DEFI TC 0.23 Vert(BC 0.20 Vert(WB 0.27 Horz Matrix-S Wind	. in (loc) .L) -0.02 8 CT) -0.05 6-8 CT) 0.01 4 .LL) 0.02 8	l/defi L/d >999 360 >999 240 n/a n/a >999 240	PLATES GRIP MT20 244/190 Weight: 153 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 9=0-3-8, 4=0-3-8 Max Horz 9=-131(LC 13) Max Uplift 9=-31(LC 8)

Max Grav 9=847(LC 1), 4=903(LC 1)

- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 1-9=-774/180, 1-2=-981/167, 2-3=-983/169, 3-4=-1200/155

BOT CHORD 6-8=-7/892, 4-6=-5/898

WEBS 1-8=-191/1106, 2-8=-503/194, 3-6=0/299

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 B; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 14-9-8, Exterior(2) 14-9-8 to 21-0-3, Interior(1) 21-0-3 to 22-4-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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) 9.

7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3.

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

rameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. 🛕 WARNING - Verify design pa Design valid for use only with MTek® connectors. This down the seed only upon parameters show, 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, erection and bracing of truss systems, see **ANSUTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





8-7-8		16-9-8		21-7-0	
8-7-8	1	8-2-0		4-9-8	
LOADING (psf) SPACING- 2-0-0	CSI. DI	: FL. in (l	loc) I/defl L/d	PLATES GRIP	
FCLL 20.0 Plate Grip DOL 1.15	TC 0.29 Ve	rt(LL) -0.05	9 >999 360	MT20 244/190	
TCDL 10.0 Lumber DOL 1.15	BC 0.23 Ve	rt(CT) -0.10	7-9 >999 240		
BCLL 0.0 * Rep Stress Incr YES	WB 0.37 Ho	rz(CT) 0.01	5 n/a n/a		
3CDL 10.0 Code IRC2015/TPI2014	Matrix-S W	nd(LL) 0.03	9 >999 240	Weight: 146 lb FT = 20	0%

 TOP CHORD
 2x6 SP No.1

 BOT CHORD
 2x6 SP No.1

 WEBS
 2x4 SP No.2 *Except*

 1-10: 2x6 SP No.1

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-3-8, 5=0-3-8 Max Horz 10=-95(LC 13) Max Uplift 10=-31(LC 8) Max Grav 10=847(LC 1), 5=903(LC 1)

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

TOP CHORD 1-10=-760/174, 1-2=-1484/235, 2-4=-1486/236, 4-5=-1307/181

BOT CHORD 7-9=-59/1008, 5-7=-56/1015

WEBS 1-9=-241/1500, 2-9=-565/220, 4-9=-71/574, 4-7=0/286

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 B; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 16-9-8, Exterior(2) 16-9-8 to 22-4-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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) 10.

- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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 in 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 oullapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses systems, see **ANSUTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road Edenton, NC 27932



	6-6-4 6-6-4	12-8-12 6-2-8		<u>21-7-0</u> 2-9-8
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI.DEFL.TC0.20Vert(LL)BC0.37Vert(CT)WB0.49Horz(CT)Matrix-SWind(LL)	in (loc) l/defl L/d -0.10 9-11 >999 360 -0.20 9-11 >999 240 0.02 6 n/a n/a 0.07 9-11 >999 240	PLATES GRIP MT20 244/190 Weight: 142 lb FT = 20%
LUMBER-		BRACING	 3-	

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 12=0-3-8, 6=0-3-8 Max Horz 12=-59(LC 13)

Max Uplift 12=-31(LC 8), 6=-11(LC 8) Max Grav 12=847(LC 1), 6=903(LC 1)

- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 1-12=-763/156, 1-2=-2060/281, 2-4=-2060/281, 4-5=-2380/369, 5-6=-1400/198

BOT CHORD 9-11=-278/2378, 8-9=-104/1101, 6-8=-99/1111

1-11=-273/1998, 2-11=-369/149, 5-9=-183/1359, 4-9=-303/134, 4-11=-332/90 WEBS

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 18-9-8, Exterior(2) 18-9-8 to 22-4-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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) 12, 6.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

except end verticals, and 2-0-0 oc purlins (4-10-13 max.): 1-5.

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

August 11,2022

rameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. 🛕 WARNING - Verify design pa Design valid for use only with MTek® connectors. This down the seed only upon parameters show, 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, erection and bracing of truss systems, see **ANSUTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601







L	5-3-10	10-3-8	15-3-6		20-1-8	21-7-0		
I	5-3-10	4-11-14	4-11-14	1	4-10-2	1-5-8		
Plate Offsets (X,Y)	[6:0-4-0,0-1-9], [13:0-3-0,0-2-	·8]						
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2- Plate Grip DOL 1 Lumber DOL 1 Rep Stress Incr Y Code IRC2015/TPI20	0-0 CSI. .15 TC 0.45 .15 BC 0.70 /ES WB 0.65 14 Matrix-S	DEFL. in Vert(LL) -0.29 Vert(CT) -0.57 Horz(CT) 0.05 Wind(LL) 0.19	(loc) I/defi L 12 >891 36 10-12 >445 24 7 n/a n 12 >999 24	/d PLATES 50 MT20 40 /a 40 Weight: 119 lb	GRIP 244/190 FT = 20%		
LUMBER- TOP CHORD 2x4 SP No.1 BRACING- TOP CHORD BOT CHORD 2x6 SP No.1 TOP CHORD WEBS 2x4 SP No.2 *Except* 1-14: 2x6 SP No.1 BOT CHORD REACTIONS: (size) 14=0-3-8								
REACTIONS. (size) 14=0-3-8, 7=0-3-8 Max Horz 14=-37(LC 13) Max Uplift 14=-31(LC 8), 7=-21(LC 8) Max Grav 14=847(LC 1), 7=914(LC 1)								
FORCES. (lb) - Max TOP CHORD 1-14 6-7-	. Comp./Max. Ten All forces =-706/138, 1-2=-2910/386, 2-4	250 (lb) or less except when shown 4=-2910/386, 4-5=-3292/487, 5-6=-3	ı. 3292/487,					
BOT CHORD 13-1 WEBS 1-13 2-13	0-7=-1500/199 BOT CHORD 13-14=-9/310, 12-13=-507/4180, 10-12=-507/4180, 9-10=-123/1192, 7-9=-118/1230 WEBS 1-13=-341/2655, 4-13=-1298/198, 4-10=-907/121, 6-10=-310/2149, 6-9=0/325, 2-13=-288/124, 5-10=-290/134							
NOTES- 1) Wind: ASCE 7-10; and C-C Exterior(2) MWFRS for reactio 2) Provide adequate d	Vult=130mph Vasd=103mph; 7 0-2-12 to 4-7-9, Interior(1) 4-7 ns shown; Lumber DOL=1.60 Irainage to prevent water pond	FCDL=6.0psf; BCDL=6.0psf; h=15ft 7-9 to 20-1-8, Exterior(2) 20-1-8 to 2 plate grip DOL=1.60 ing.	; Cat. II; Exp B; Enclosed; 22-6-0 zone;C-C for memb	MWFRS (envelope) pers and forces &	. Sin 20 Vite Bi	M159755		

- 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) 14, 7.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







- 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, 8, 13, 14, 11, 10.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







	4-11- 4-11- 4-11-	4-11-8 4-11-8			9-11-0 4-11-8					
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.19 BC 0.13 WB 0.05 Matrix-S	DEFL. Vert(LL) -(Vert(CT) -(Horz(CT) (Wind(LL) (in (loc) 0.01 6 0.02 6 0.00 4 0.02 2-6	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 44 lb	GRIP 244/190 FT = 20%		
LUMBER-	· · · · · · · · · · · · · · · · · · ·		BRACING-				<u>.</u>		-	

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-0, 4=0-3-0 Max Horz 2=-19(LC 17)

Max Uplift 2=-124(LC 8), 4=-124(LC 9)

Max Grav 2=449(LC 1), 4=449(LC 1)

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

TOP CHORD 2-3=-653/587, 3-4=-653/587

BOT CHORD 2-6=-485/562, 4-6=-485/562

NOTES-

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

 Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 4-11-8, Exterior(2) 4-11-8 to 9-4-5, Interior(1) 9-4-5 to 10-10-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=124, 4=124.

6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

August 11,2022





						9-11-0							
						9-11-0					1		
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 2	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	6	n/r	120	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	6	n/r	120			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	6	n/a	n/a			
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 46 lb	FT = 20%	
LUMBER-						BRACING-							

TOP CHORD

BOT CHORD

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

REACTIONS. All bearings 9-11-0

Max Horz 2=-33(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8

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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DDL=1.60 June grip DDL=1.60 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry

- Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.

5) Gable studs spaced at 2-0-0 oc. 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8. 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6.

10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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





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 0.28 Vert(LL) -0.01 2-4 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.08 Vert(CT) -0.01 2-4 >999 240				5-0-0				I	
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) 0.01 2-4 >999 240 Weight: 25 lb FT = 20%	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 0.28 BC 0.08 WB 0.00 Matrix-P	DEFL. Vert(LL) -0 Vert(CT) -0 Horz(CT) 0 Wind(LL) 0	in (loc) 0.01 2-4 0.01 2-4 0.00 0.01 2-4	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 25 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x6 SP No.1WEBS2x6 SP No.1

REACTIONS. (size) 2=0-3-0, 4=0-1-8

Max Horz 2=62(LC 12) Max Uplift 2=-45(LC 8), 4=-41(LC 8) Max Grav 2=252(LC 1), 4=179(LC 1)

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

NOTES-

 Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 4-9-4 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals.





		5-0-0	7
LOADING (psf) SPACING- 2-0-0 TCLL 20.0 Plate Grip DOL 1.11 TCDL 10.0 Lumber DOL 1.14 BCLL 0.0 * Rep Stress Incr YES BCDL 10.0 Code IRC2015/TPI2014 10.14	CSI. 5 TC 0.07 5 BC 0.09 WB 0.01 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.01 8 >999 360 Vert(CT) -0.01 8 >999 240 Horz(CT) -0.00 6 n/a n/a Wind(LL) 0.01 8 >999 240	PLATES GRIP MT20 244/190 Weight: 29 lb FT = 20%

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

BRACING-TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. BOT CHORD

REACTIONS. (size) 2=0-3-0, 6=0-1-8

Max Horz 2=90(LC 12) Max Uplift 2=-69(LC 8), 6=-63(LC 8)

Max Grav 2=252(LC 1), 6=179(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) Gable studs spaced at 2-0-0 oc.
- 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) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.64	Vert(LL) -0.03 2-4 >999 360 MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) -0.05 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) 0.05 2-4 >999 240 Weight: 35 lb FT = 20%

TOP CHORD2x4 SP No.1BOT CHORD2x6 SP No.1WEBS2x6 SP No.1

BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

REACTIONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=85(LC 12)

Max Uplift 2=-55(LC 8), 4=-59(LC 8)

Max Grav 2=330(LC 1), 4=261(LC 1)

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

NOTES-

 Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 6-9-4 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.







LOADING	i (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLA	TES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) -0.02 9-10 >999 360 MT20) 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) -0.05 9-10 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT) -0.00 7 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05 9-10 >999 240 Weig	ht: 42 lb FT = 20%

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-0, 7=0-1-8 Max Horz 2=122(LC 12)

Max Uplift 2=-86(LC 8), 7=-91(LC 8) Max Grav 2=330(LC 1), 7=261(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) Gable studs spaced at 2-0-0 oc.
- 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) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.









		7-10-8	5-6-4	0-1-8 1-8-8	
Plate Offsets (X,Y)	[2:0-3-10,0-5-15], [2:0-0-0,0-0-15], [8	3:0-2-12,0-2-0]			
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 NO Code IRC2015/TPI2014	CSI. TC 0.54 BC 0.58 WB 0.79 Matrix-S	DEFL. in Vert(LL) -0.08 Vert(CT) -0.18 Horz(CT) 0.01 Wind(LL) 0.07	(loc) l/defi L/d 8-11 >999 360 8-11 >999 240 7 n/a n/a 8-11 >999 240	PLATES GRIP MT20 244/190 Weight: 123 lb FT = 20%
LUMBER- TOP CHORD 2x6 SF BOT CHORD 2x6 SF 9-10: 2 WEBS 2x6 SF 3-8,3-7 WEDGE Left: 2x6 SP No.1	P No.1 P 2400F 2.0E *Except* 2x4 SP No.1 P No.1 *Except* 11: 2x4 SP No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheatt except end verticals. 6-0-0 oc bracing: 5-10 Rigid ceiling directly a 1 Row at midpt	hing directly applied or 6-0-0 oc purlins, Except: pplied or 10-0-0 oc bracing. 5-10

REACTIONS. (size) 2=0-3-8, 7=Mechanical Max Horz 2=254(LC 12) Max Uplift 7=-39(LC 12) Max Grav 2=724(LC 19), 7=1197(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-845/0, 8-10=-533/109

BOT CHORD 2-11=-164/658, 8-11=-164/658

WEBS 3-8=-810/207, 7-9=-254/6, 3-11=0/540

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 B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 13-6-4 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) 7.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) 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 has/have been modified.
- Building designer must review loads to verify that they are correct for the intended use of this truss.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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



Scale = 1:61.2





Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows
			_		153588305
J0822-4066	M1	ROOF SPECIAL	9	1	
					Job Reference (optional)
Comtech, Inc, Fa	yetteville, NC - 28314,		8.4	30 s Aug 1	16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:31 2022 Page 2

ID:Mxo2zT_108v8CIEXCBvR1ayxNUw-w2eEuNIzFDkjELNfN3ZFEk9IUqNMcUdIW3?ykiypGnE

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-60, 5-6=-60, 2-7=-20, 9-10=-40 Concentrated Loads (lb) Vert: 15=-500 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-50, 5-6=-50, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Concentrated Loads (Ib) Vert: 15=-438 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-5=-20, 5-6=-20, 2-7=-40, 9-10=-60 Concentrated Loads (lb) Vert: 15=-375 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=45, 2-12=26, 5-12=20, 5-6=45, 2-7=-12, 9-10=-32 Horz: 1-2=-57, 2-12=-38, 5-12=-32, 5-6=-57 Concentrated Loads (lb) Vert: 15=86 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=14, 2-13=20, 5-13=26, 5-6=20, 2-7=-12, 9-10=-32 Horz: 1-2=-26, 2-13=-32, 5-13=-38, 5-6=-32 Concentrated Loads (lb) Vert: 15=86 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=5, 2-5=-51, 5-6=5, 2-7=-20, 9-10=-40 Horz: 1-2=-25, 2-5=31, 5-6=-25 Concentrated Loads (lb) Vert: 15=-444 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-45, 2-5=-51, 5-6=-45, 2-7=-20, 9-10=-40 Horz: 1-2=25, 2-5=31, 5-6=25 Concentrated Loads (lb) Vert: 15=-444 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-0, 2-5=-13, 5-6=-18, 2-7=-12, 9-10=-32 Horz: 1-2=-12, 2-5=1, 5-6=6 Concentrated Loads (lb) Vert: 15=-115 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=1, 2-5=7, 5-6=20, 2-7=-12, 9-10=-32 Horz: 1-2=-13, 2-5=-19, 5-6=-32 Concentrated Loads (lb) Vert: 15=-32 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-26, 2-5=-32, 5-6=-26, 2-7=-20, 9-10=-40 Horz: 1-2=6, 2-5=12, 5-6=6 Concentrated Loads (Ib) Vert: 15=-325 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-7, 2-5=-12, 5-6=-7, 2-7=-20, 9-10=-40 Horz: 1-2=-13, 2-5=-8, 5-6=-13 Concentrated Loads (lb) Vert: 15=-285 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=9, 2-5=15, 5-6=9, 2-7=-12, 9-10=-32 Horz: 1-2=-21, 2-5=-27, 5-6=-21 Concentrated Loads (lb) Vert: 15=18 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-1, 2-5=5, 5-6=-1, 2-7=-12, 9-10=-32 Horz: 1-2=-11, 2-5=-17, 5-6=-11 Concentrated Loads (lb) Vert: 15=-44



Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows
10822 4066	N41	BOOE SPECIAL	0	1	153588305
JU022-4000			9	'	Job Reference (optional)
Comtech, Inc, Fayetter	/ille, NC - 28314,		8.4	30 s Aug 1	6 2021 MiTek Industries, Inc. Wed Aug 10 10:56:31 2022 Page 3

ID:Mxo2zT_1o8v8CIEXCBvR1ayxNUw-w2eEuNIzFDkjELNfN3ZFEk9IUqNMcUdIW3?ykiypGnE

LOAD CASE(S) Standard

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=9, 2-5=15, 5-6=9, 2-7=-12, 9-10=-32 Horz: 1-2=-21, 2-5=-27, 5-6=-21 Concentrated Loads (lb) Vert: 15=18 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-1, 2-5=5, 5-6=-1, 2-7=-12, 9-10=-32 Horz: 1-2=-11, 2-5=-17, 5-6=-11 Concentrated Loads (lb) Vert: 15=-44 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=1, 2-5=-4, 5-6=1, 2-7=-20, 9-10=-40 Horz: 1-2=-21, 2-5=-16, 5-6=-21 Concentrated Loads (lb) Vert: 15=-285 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-9, 2-5=-14, 5-6=-9, 2-7=-20, 9-10=-40 Horz: 1-2=-11, 2-5=-6, 5-6=-11 Concentrated Loads (lb) Vert: 15=-285 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-5=-20, 5-6=-20, 2-14=-20, 11-14=-80, 7-11=-20, 9-10=-120 Concentrated Loads (lb) Vert: 15=-250 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-55, 2-5=-59, 5-6=-55, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Horz: 1-2=5, 2-5=9, 5-6=5 Concentrated Loads (lb) Vert: 15=-494 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-40, 2-5=-44, 5-6=-40, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Horz: 1-2=-10, 2-5=-6, 5-6=-10 Concentrated Loads (lb) Vert: 15=-464 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-34, 2-5=-38, 5-6=-34, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Horz: 1-2=-16, 2-5=-12, 5-6=-16 Concentrated Loads (lb) Vert: 15=-464 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-41, 2-5=-46, 5-6=-41, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Horz: 1-2=-9, 2-5=-4, 5-6=-9 Concentrated Loads (lb) Vert: 15=-464 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-60, 5-6=-60, 2-7=-20, 9-10=-40 Concentrated Loads (lb) Vert: 15=-500 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-20, 5-6=-20, 2-7=-20, 9-10=-40 Concentrated Loads (lb) Vert: 15=-250 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-50, 5-6=-50, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Concentrated Loads (lb) Vert: 15=-438 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-20, 5-6=-20, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100



Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows		
					153588	8305	
J0822-4066	M1	ROOF SPECIAL	9	1			
					Job Reference (optional)		
Comtech, Inc, Fayette	ville, NC - 28314,		8.4	30 s Aug 1	6 2021 MiTek Industries, Inc. Wed Aug 10 10:56:31 2022 Page 4	4	
· · · ·		ID:Mxo2zT_108v8CIEXCBvR1ayxNUw-w2eEuNIzFDkjELNfN3ZFEk9IUqNMcUdIW3?ykiypGnE					

LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 15=-250





Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows			
J0822-4066	M1GE	GABLE	1	1		153588306		
Comtech, Inc, Fayette	ville, NC - 28314,		8.4	30 s Aug 1	Job Reference (optional) 6 2021 MiTek Industries, Inc. Wed Aug 10 10):56:32 2022 Page 2		
NOTES- 12) See Standard Industry 13) Graphical purlin repres 14) Hanger(s) or other cor responsibility of others	Piggyback Truss Connectior sentation does not depict the nection device(s) shall be pro	ID:N n Detail for Connection to base truss as applicab size or the orientation of the purlin along the top pvided sufficient to support concentrated load(s)	lxo2zT_1c le, or con and/or bo . The de	8v8CIEXC sult qualif ottom cho sign/seled	BvR1ayxNUw-OECc5jlb0XsasVyrxn4UnxiwkE ied building designer. rd. ttion of such connection device(s) is the	i1L4XRIjIVG8ypGnD		
LOAD CASE(S) Standard 1) Dead + Roof Live (balar Uniform Loads (plf) Vert: 1-10=-60, Concentrated Loads (lb) Vert: 24=-500 2) Dead + 0.75 Roof Live (Uniform Loads (plf)	1 nced): Lumber Increase=1.15 10-11=-60, 2-13=-20, 12-13=) balanced) + 0.75 Attic Floor:	, Plate Increase=1.15 236, 14-15=-40 Lumber Increase=1.15, Plate Increase=1.15						
Concentrated Loads (lb) Vert: 24=-438 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)								
Vert: 1-10=-20, Concentrated Loads (Ib Vert: 24=-375	10-11=-20, 2-13=-40, 12-13=)	=-202, 14-15=-60						
4) Dead + 0.6 C-C Wind (f Uniform Loads (plf) Vert: 1-2=45, 2 Horz: 1-2=-57, Concentrated Loads (Deather Loads) Vert: 24=86	Pos. Internal) Case 1: Lumber -10=26, 10-11=45, 2-13=-12, 2-10=-38, 10-11=-57)	r Increase=1.60, Plate Increase=1.60 12-13=25, 14-15=-32						
5) Dead + 0.6 C-C Wind (F Uniform Loads (plf) Vert: 1-2=20, 2 Horz: 1-2=-32, Concentrated Loads (D	Pos. Internal) Case 2: Lumber -10=26, 10-11=20, 2-13=-12, 2-10=-38, 10-11=-32)	r Increase=1.60, Plate Increase=1.60 12-13=25, 14-15=-32						
6) Dead + 0.6 C-C Wind (h Uniform Loads (plf) Vert: 1-2=5, 2- Horz: 1-2=-25, Concentrated Loads (lb	Neg. Internal) Case 1: Lumbe 10=-51, 10-11=5, 2-13=-20, 1 2-10=31, 10-11=-25)	r Increase=1.60, Plate Increase=1.60 2-13=-212, 14-15=-40						
7) Dead + 0.6 C-C Wind (h Uniform Loads (plf) Vert: 1-2=-45, 2 Horz: 1-2=25, 2 Concentrated Loads (lb	Neg. Internal) Case 2: Lumbe 2-10=-51, 10-11=-45, 2-13=-2 2-10=31, 10-11=25)	r Increase=1.60, Plate Increase=1.60 20, 12-13=-212, 14-15=-40						
Vert: 24=-444 8) Dead + 0.6 MWFRS Wi Uniform Loads (plf) Vert: 1-2=-2, 2- Horz: 1-2=-10, Concentrated Loads (lb	nd (Pos. Internal) Left: Lumbe 10=-15, 10-11=-20, 2-13=-12 2-10=3, 10-11=8)	er Increase=1.60, Plate Increase=1.60 2, 12-13=-62, 14-15=-32						
Vert: 24=-115 9) Dead + 0.6 MWFRS Wi Uniform Loads (plf) Vert: 1-2=4, 2- Horz: 1-2=-16, Concentrated Loads (lb	nd (Pos. Internal) Right: Lumi 10=10, 10-11=23, 2-13=-12, 1 2-10=-22, 10-11=-35)	ber Increase=1.60, Plate Increase=1.60 12-13=-18, 14-15=-32						
Vert: 24=-13 10) Dead + 0.6 MWFRS V Uniform Loads (plf) Vert: 1-2=-28, Horz: 1-2=8, 2 Concentrated Loads (I	/ind (Neg. Internal) Left: Lum 2-10=-34, 10-11=-28, 2-13≕ 2-10=14, 10-11=8 b)	ber Increase=1.60, Plate Increase=1.60 20, 12-13=-166, 14-15=-40						
Vert: 24=-337 11) Dead + 0.6 MWFRS V Uniform Loads (plf) Vert: 1-2=-4, 2 Horz: 1-2=-16	/ind (Neg. Internal) Right: Lur 2-10=-9, 10-11=-4, 2-13=-20, , 2-10=-11, 10-11=-16	mber Increase=1.60, Plate Increase=1.60 12-13=-143, 14-15=-40						
Concentrated Loads (I Vert: 24–285 12) Dead + 0.6 MWFRS W Uniform Loads (plf) Vert: 1-2=21, Horz: 1-2=-33	b) /ind (Pos. Internal) 1st Parall 2-10=27, 10-11=21, 2-13=-12 , 2-10=-39, 10-11=-33	el: Lumber Increase=1.60, Plate Increase=1.60 2, 12-13=28, 14-15=-32						
Concentrated Loads (I Vert: 24=92 13) Dead + 0.6 MWFRS W	b) /ind (Pos. Internal) 2nd Paral	lel: Lumber Increase=1.60, Plate Increase=1.60						



Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows
					153588306
J0822-4066	M1GE	GABLE	1	1	
					Job Reference (optional)
Comtech, Inc, Fayetteville, NC - 28314,				30 s Aug 1	16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:32 2022 Page 3

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:32 2022 Page 3 ID:Mxo2zT_108v8CIEXCBvR1ayxNUw-OECc5jlb0XsasVyrxn4UnxiwkEi1L4XRIjIVG8ypGnD

LO	AD CASE(S) Standard
	Uniform Loads (plf)
	Vert: 1-2=4, 2-10=10, 10-11=4, 2-13=-12, 12-13=-18, 14-15=-32
	Horz: 1-2=-16, 2-10=-22, 10-11=-16
	Vort 24-13
14)	Veil. 2413
,	Uniform Loads (plf)
	Vert: 1-2=21, 2-10=27, 10-11=21, 2-13=-12, 12-13=28, 14-15=-32
	Horz: 1-2=-33, 2-10=-39, 10-11=-33
	Concentrated Loads (lb)
15)	Vert: 24=92 Dead + 0.6 MWERS Wind (Pos Internal) 4th Parallel: Lumber Increase–1.60. Plate Increase–1.60.
10)	Uniform Loads (off)
	Vert: 1-2=4, 2-10=10, 10-11=4, 2-13=-12, 12-13=-18, 14-15=-32
	Horz: 1-2=-16, 2-10=-22, 10-11=-16
	Concentrated Loads (lb)
16)	Vetil. 24=-13 Dead + 0.6 MWERS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60. Plate Increase=1.60
10)	Uniform Loads (of)
	Vert: 1-2=13, 2-10=8, 10-11=13, 2-13=-20, 12-13=-143, 14-15=-40
	Horz: 1-2=-33, 2-10=-28, 10-11=-33
	Concentrated Loads (lb)
17)	Vert: 24=-263 Dead + 0.6 MWERS Wind (Neg. Internal) 2nd Parallel: Lumber Increase-1.60. Plate Increase-1.60
,	Uniform Loads (of)
	Vert: 1-2=-4, 2-10=-9, 10-11=-4, 2-13=-20, 12-13=-143, 14-15=-40
	Horz: 1-2=-16, 2-10=-11, 10-11=-16
	Concentrated Loads (Ib)
18)	veri. 24=-203 Dead-Lumber Increase=0.90 Plate Increase=0.90 Plt metal=0.90
,	Uniform Loads (plf)
	Vert: 1-10=-20, 10-11=-20, 2-13=-20, 12-13=-128, 14-15=-120
	Concentrated Loads (Ib)
10)	Vert: 24=-250 Dead + 0.75 Paof Live (bal) + 0.75 Attic Elear + 0.75(0.6 MW/ERS Wind (Neg. Jat) Left): Lumber Jacrosse-1.60 Plate Jacrosse-1.60
13)	Uniform Londos (off)
	Vert: 1-2=-56, 2-10=-60, 10-11=-56, 2-13=-20, 12-13=-237, 14-15=-100
	Horz: 1-2=6, 2-10=10, 10-11=6
	Concentrated Loads (Ib)
20)	veri. 24=-503 Dead + 0.75 Roof (j.we (bal.) + 0.75 Attic Floor + 0.75(0.6 MWERS Wind (Neg. Int) Right): Lumber Increase=1.60 Plate Increase=1.60
20)	Uniform Loads (off)
	Vert: 1-2–-38, 2-10=-42, 10-11=-38, 2-13=-20, 12-13=-220, 14-15=-100
	Horz: 1-2=-12, 2-10=-8, 10-11=-12
	Concentrated Loads (Ib)
21)	vert. 24=404 Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Nec. Int) 1st Parallel): Lumber Increase=1.60. Plate Increase=1.60
,	Uniform Loads (plf)
	Vert: 1-2=-25, 2-10=-29, 10-11=-25, 2-13=-20, 12-13=-220, 14-15=-100
	Horz: 1-2=-25, 2-10=-21, 10-11=-25
	Concentrated Loads (Ib) Vert: 24-464
22)	Volt. 2 - 504 (volt.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60. Plate
,	Increase=1.60
	Uniform Loads (plf)
	Vert: 1-2=-38, 2-10=-42, 10-11=-38, 2-13=-20, 12-13=-220, 14-15=-100
	noi2. 1-2=-12, 2-10=-0, 10-11=-12 Concentrated Loads (Jb)
	Vert: 24=-464
23)	1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
	Uniform Loads (plf)
	Vert: 1-10=-60, 10-11=-60, 2-13=-20, 12-13=-236, 14-15=-40
	Vert: 24-500
24)	2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
	Uniform Loads (plf)
	Vert: 1-10=-20, 10-11=-20, 2-13=-20, 12-13=-128, 14-15=-40
	Concentrated Loads (ib) Vert 24250
25)	3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
	Uniform Loads (plf)
	Vert: 1-10=-50, 10-11=-50, 2-13=-20, 12-13=-209, 14-15=-100
	Concentrated Loads (ID)

Vert: 24=-438

inued on page

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

WARTING - 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 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 buckling of individual truss evel and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent ouclings with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, rerection and bracing of trusses systems, see **ANSUTPI 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	Lot 5 Liberty Meadows			
J0822-4066	M1GE	GABLE	1	1	153588306			
					Job Reference (optional)			
Comtech, Inc, Fayette		8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:32 2022 Page 4						
		ID:Mxo2zT_1o8v8CIEXCBvR1ayxNUw-OECc5jlb0XsasVyrxn4UnxiwkEi1L4XRljlVG8ypGn						

LOAD CASE(S) Standard Uniform Loads (plf)

Vert: 1-10=-20, 10-11=-20, 2-13=-20, 12-13=-128, 14-15=-100 Concentrated Loads (lb) Vert: 24=-250





- 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) 7.
 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page

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 in 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of truss systems, see **ANSUTPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

August 11,2022



Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows
					153588307
J0822-4066	M2	ROOF SPECIAL	2	1	
					Job Reference (optional)
Comtech, Inc, F	ayetteville, NC - 28314,		8.4	30 s Aug 1	16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:33 2022 Page 2

ID:Mxo2zT_108v8CIEXCBvR1ayxNUw-sRm_J2mDnq_RTfX1UUbjJ9F4Ve254Ofa_MU2obypGnC

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-60, 5-6=-60, 2-7=-20, 9-10=-40 Concentrated Loads (lb) Vert: 15=-500 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-50, 5-6=-50, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Concentrated Loads (Ib) Vert: 15=-438 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-5=-20, 5-6=-20, 2-7=-40, 9-10=-60 Concentrated Loads (lb) Vert: 15=-375 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=45, 2-12=26, 5-12=20, 5-6=45, 2-7=-12, 9-10=-32 Horz: 1-2=-57, 2-12=-38, 5-12=-32, 5-6=-57 Concentrated Loads (lb) Vert: 15=86 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=14, 2-13=20, 5-13=26, 5-6=20, 2-7=-12, 9-10=-32 Horz: 1-2=-26, 2-13=-32, 5-13=-38, 5-6=-32 Concentrated Loads (lb) Vert: 15=86 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=5, 2-5=-51, 5-6=5, 2-7=-20, 9-10=-40 Horz: 1-2=-25, 2-5=31, 5-6=-25 Concentrated Loads (lb) Vert: 15=-444 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-45, 2-5=-51, 5-6=-45, 2-7=-20, 9-10=-40 Horz: 1-2=25, 2-5=31, 5-6=25 Concentrated Loads (lb) Vert: 15=-444 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-0, 2-5=-13, 5-6=-18, 2-7=-12, 9-10=-32 Horz: 1-2=-12, 2-5=1, 5-6=6 Concentrated Loads (lb) Vert: 15=-115 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=1, 2-5=7, 5-6=20, 2-7=-12, 9-10=-32 Horz: 1-2=-13, 2-5=-19, 5-6=-32 Concentrated Loads (lb) Vert: 15=-32 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-26, 2-5=-32, 5-6=-26, 2-7=-20, 9-10=-40 Horz: 1-2=6, 2-5=12, 5-6=6 Concentrated Loads (Ib) Vert: 15=-325 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-7, 2-5=-12, 5-6=-7, 2-7=-20, 9-10=-40 Horz: 1-2=-13, 2-5=-8, 5-6=-13 Concentrated Loads (lb) Vert: 15=-285 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=9, 2-5=15, 5-6=9, 2-7=-12, 9-10=-32 Horz: 1-2=-21, 2-5=-27, 5-6=-21 Concentrated Loads (lb) Vert: 15=18 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-1, 2-5=5, 5-6=-1, 2-7=-12, 9-10=-32 Horz: 1-2=-11, 2-5=-17, 5-6=-11 Concentrated Loads (lb) Vert: 15=-44



Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows
10000 4000					153588307
J0822-4066	MZ		2	1	Job Reference (optional)
Comtech, Inc, Fayette		8.4	30 s Aug 1	6 2021 MiTek Industries, Inc. Wed Aug 10 10:56:33 2022 Page 3	

ID:Mxo2zT_108v8CIEXCBvR1ayxNUw-sRm_J2mDnq_RTfX1UUbjJ9F4Ve254Ofa_MU2obypGnC

LOAD CASE(S) Standard

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=9, 2-5=15, 5-6=9, 2-7=-12, 9-10=-32 Horz: 1-2=-21, 2-5=-27, 5-6=-21 Concentrated Loads (lb) Vert: 15=18 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-1, 2-5=5, 5-6=-1, 2-7=-12, 9-10=-32 Horz: 1-2=-11, 2-5=-17, 5-6=-11 Concentrated Loads (lb) Vert: 15=-44 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=1, 2-5=-4, 5-6=1, 2-7=-20, 9-10=-40 Horz: 1-2=-21, 2-5=-16, 5-6=-21 Concentrated Loads (lb) Vert: 15=-285 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-9, 2-5=-14, 5-6=-9, 2-7=-20, 9-10=-40 Horz: 1-2=-11, 2-5=-6, 5-6=-11 Concentrated Loads (lb) Vert: 15=-285 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-5=-20, 5-6=-20, 2-14=-20, 11-14=-80, 7-11=-20, 9-10=-120 Concentrated Loads (lb) Vert: 15=-250 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-55, 2-5=-59, 5-6=-55, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Horz: 1-2=5, 2-5=9, 5-6=5 Concentrated Loads (lb) Vert: 15=-494 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-40, 2-5=-44, 5-6=-40, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Horz: 1-2=-10, 2-5=-6, 5-6=-10 Concentrated Loads (lb) Vert: 15=-464 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-34, 2-5=-38, 5-6=-34, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Horz: 1-2=-16, 2-5=-12, 5-6=-16 Concentrated Loads (lb) Vert: 15=-464 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-41, 2-5=-46, 5-6=-41, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Horz: 1-2=-9, 2-5=-4, 5-6=-9 Concentrated Loads (lb) Vert: 15=-464 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-60, 5-6=-60, 2-7=-20, 9-10=-40 Concentrated Loads (lb) Vert: 15=-500 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-20, 5-6=-20, 2-7=-20, 9-10=-40 Concentrated Loads (lb) Vert: 15=-250 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-50, 5-6=-50, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100 Concentrated Loads (lb) Vert: 15=-438 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-20, 5-6=-20, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100



Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows				
J0822-4066	M2	ROOF SPECIAL	2	1	153588307				
					Job Reference (optional)				
Comtech, Inc, Fayet	Comtech, Inc, Fayetteville, NC - 28314,				8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:33 2022 Page 4				
		ID:Mxo2zT_108v8CIEXCBvR1ayxNUw-sRm_J2mDnq_RTfX1UUbjJ9F4Ve254Ofa_MU2							

LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 15=-250





FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-294/85

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-2 to 4-7-15, Interior(1) 47-15 to 6-8-4, Exterior(2) 6-8-4 to 11-1-1, Interior(1) 11-1-1 to 13-1-6 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.

A) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.







BRACING-

TOP CHORD

BOT CHORD

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

LUMBER-

REACTIONS. All bearings 11-10-4.

(lb) - Max Horz 2=-106(LC 10)

2x4 SP No.1

Max Uplift All uplift 100 lb or less at joint(s) 2, 4, 10, 6 Max Grav All reactions 250 lb or less at joint(s) 8, 9, 10, 7, 6 except 2=307(LC 1), 4=307(LC 1)

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

TOP CHORD 2-3=-408/154, 3-4=-408/154

2-10=-43/254, 9-10=-43/254, 8-9=-43/254, 7-8=-43/254, 6-7=-43/254, 4-6=-43/254 BOT CHORD

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 B; 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, 4, 10, 6. 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

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

August 11,2022









	/	Client: Ber	njamin Stout Real E	state	Date:	8/10/2022	Page 2 of
1	isDesign	Project: The Address: 67	e Caroline Wolcott Court		Input by: Job Name	David Landry e: Lot 5 Liberty Meadows	
*					Project #:	J0822-4067	
BM1	Kerto-S LVL	1.750" X 1	6.000"	2-Ply - PASS	SED		
	• • •	• • •	• •	• • •	•	• • • •	·· · · · · · · · · · · · · · · · · · ·
· ·	• • •		• •	• • •	•••		·
	•••	• • •	•••	• • •	•	••••	
			1	8'			
/			1	8'			
Multi-Ply	/ Analysis						
Fasten all	plies using 3 rows o	f 10d Box nails (.12	8x3") at 12" o.	c Maximum end d	listance n	ot to exceed 6".	
Capacity Load	96 27	5.3 % 2.0 PLF					
Yield Limit pe Yield Limit pe	er Foot 28 er Fastener 94	2.4 PLF - 1 lb					
Yield Mode	IV						
Edge Distand Min. End Dist	tance 1 '	1/2"					
Load Combin	nation D-	+S					
						Manufacturor Info	Comtech Inc
Notes Calculated Struct	tured Designs is responsible only of the	chemicals Handling & Installation	6.	For flat roofs provide proper drain bonding	age to prevent	Metsä Wood	1001 S. Reilly Road, Suite #639 Fayetteville, NC
design criteria responsibility of t	acy or this component based on the and loadings shown. It is the the customer and/or the contractor to	1. LVL beams must not be cut or d 2. Refer to manufacturer's regarding installation requ	rilled product information irements, multi-ply			301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622 5850	28314 910-864-TRUS
application, and to Lumber	o verify the dimensions and loads.	fastening details, beam streng approvals 3. Damaged Beams must not be u	th values, and code sed			www.metsawood.com/us	
1. Dry service co 2. LVL not to be	onditions, unless noted otherwise a treated with fire retardant or corrosive	 Design assumes top edge is lat Provide lateral support at bea lateral displacement and rotation 	erally restrained ring points to avoid 1	This design is valid until 11/:	3/2024		соттесн
Version 21.80 /	117 Poworod by iStruct™ Datas	at: 220610011			·		

Version 21.80.417 Powered by iStruct™ Dataset: 22061001.1

1.0	-	C	Client:	Benjamin S	tout Real Esta	te		Date	e :	8/10/202	2				Page 3 of
1		F	Project:	The Carolin	e			Input	t by:	David La	ndry				
i	sDesign	A	Address:	67 Wolco	tt Court			Job I	Name:	Lot 5 Lib	erty Mea	dows			
+	_							Proje	ect #:	J0822-40	067				
BM2	Kerto-SIV	1 1	750"	X 13 00)0" 2-	Plv - P	AS	SED	L	evel: Level					
			100												
					3										
	2														
			- 1)				11								
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														IXIY	
-	C. C. Maria	1791	-		ALT Y THE	T	-							IAIA	1'1"
•			11 miles	· · · · ·	•		•							V V V	
1 SPF						2 SPF	_							1 1	
/			7'2 1/2"				\rightarrow							\rightarrow	, 3 1/2"
			/'2 1/2"				I								
Member Ir	nformation						Rea	ctions	UNP	ATTERN	IED lb	(Uplift)			
Туре:	Girder		Applica	ition:	Floor		Brg	Directi	ion	Live		Dead	Snow	Wind	Const
Plies:	2		Design	Method:	ASD		1	Vertica	al	1254		1680	793	0	0
Moisture Cor	ndition: Dry		Buildin	g Code:	IBC/IRC 2015	5	2	Vertica	al	1254		1680	793	0	C
Deflection LL	.: 480		Load S	haring:	No Not Ob a shared										
Deflection IL	.: 360 Normol II		Deck:		Not Checked										
Temperature	. Temp <= 100°	F													
remperature							Bea	rinas							
							Be	aring Le	enath	Dir.	Cap. F	React D/L It	o Tota	Ld. Case	Ld. Comb.
							1 -	SPF 3.	.500"	Vert	62%	1680 / 153	5 3215	5 L	D+0.75(L+8
							2-	SPF 3.	.500"	Vert	62%	1680 / 153	5 3215	ίL	D+0.75(L+S
Analysis R	esults														
Analysis	Actual	Location A	Allowed	Capacity	Comb.	Case									
Moment	4637 ft-lb	3'7 1/4" 2	23540 ft-lb	0.197 (20	%) D+L	L									
Unbraced	5081 ft-lb	3'7 1/4" 1	3971 ft-lb	0.364 (36	%) D+0.75(L+	-S) L									
Shear	1826 lb	5'10" 9	9707 lb	0.188 (19	1%) D+L	L									
LL Defl inch	ו 0.022 (L/3738)	3'7 5/16" 0).169 (L/48	0) 0.128 (13	%) 0.75(L+S)	L									
TL Defl inch	ו 0.045 (L/1785)	3'7 5/16" 0).225 (L/36	0) 0.202 (20	%) D+0.75(L+	-S) L	4								
Design No	otes						1								
1 Provide su	upport to prevent latera	al movement	and rotation	on at the end	bearings. Late	eral support									
2 Fasten all	plies using 3 rows of	10d Box nails	s (.128x3")	at 12" o.c. M	aximum end d	listance not									
to exceed	6".														
3 Refer to la 4 Girders ar	e designed to be supr	s for fastenei orfed on the	bottom ed	tor specified ae only	loads.										
5 Top loads	must be supported eq	ually by all p	lies.	3,-											
6 Top must	be laterally braced at e	end bearings	i.												
7 Bottom m 8 Lateral sle	ust be laterally braced enderness ratio based	on single ply	ngs. / width												
ID	Load Type	L	ocation	Trib Width	Side	Dead 0.9		Live 1	Snov	v 1.15	Wind 1	.6 Const.	1.25 Co	omments	
1	Uniform	_			Ton	116 PLF	3	48 PI F		0 PLF	0 PI	F 0			
- -	Uniform				Ton	120 DIE	Ū					., 0 E 0			
2	Uniform				тор							.r 0			
3	Uniform				юр	220 PLF		0 PLF	22	20 PLF	0 PL	.F 0	PLF B5)	
	Self Weight					10 PLF									
Notes		chemical	s		6. For fi	at roofs provide r	proper dra	inage to pre-	event	Manufacture	er Info		Comtect	n, Inc. Deilly Deed, Suite	#630
Calculated Structure	ed Designs is responsible only of	the Handling	& Installat	ion	pondir	ng				Metsä Wood		a . =:	Fayettev	rille, NC	#039
design criteria and responsibility of the	nd loadings shown. It is customer and/or the contracto	the 2 Refer t	to manufactur	cut or drilled er's product int	formation					301 Merritt 7 Norwalk, CT	Building, 06851	∠nd Floor	28314 910-864	-TRUS	
ensure the compo application, and to v	onent suitability of the inten erify the dimensions and loads.	ded fastening approval	g details, beam s	strength values, a	ind code					(800) 622-58 www.metsaw	50 /ood.com	/us			
Lumber	litions unless noted otherwis-	3. Damage 4. Design a	d Beams must r issumes top edg	iot be used je is laterally restrai	ned								-		
2. LVL not to be tre	eated with fire retardant or corros	5. Provide sive lateral di	lateral support splacement and	at bearing points rotation	to avoid This	design is valid	l until 11	/3/2024					4	COMT	есн
Version 21.80.41	7 Powered by iStruct™ Da	ataset: 220610	01.1										CCE	DBAW	

-	/	Client: Project:	Benjamin Stout Rea	al Estate	Date:	8/10/2022	Page 4 of
1	isDesign	Address:	67 Wolcott Cour	t	Job Nar	ne: Lot 5 Liberty Meadows	
BM2	Kerto-SIV	1.750"	X 13.000"	2-Plv -		#: J0822-4067 Level: Level	
				2 · · · y	INCOLD		
	• •	•	• •	•			M
	• •	• • •	•	•			1'1"
	F	•	• •	2 5			
/		7'2 1/2"					3 1/2"
∤───		7'2 1/2"					
Multi-Ply	/ Analysis	of 10d Box nails	(128v3") at 12" .	o.c. Maxim	um and distance i	not to exceed 6"	
Capacity	plies using 5 tows	0.0 %					
Load Yield Limit pe	er Foot	0.0 PLF 245.6 PLF					
Yield Limit pe Yield Mode	er Fastener	81.9 lb. IV					
Edge Distand		1 1/2"					
Load Combin	nation	3					
Duration Fac	stor	1.00					
						Manufactor	Constant Inc
Notes Calculated Struct	tured Designs is responsible only of	chemicals f the Handling & Installat	ion	For flat roofs pro- ponding	vide proper drainage to prevent	Metsä Wood	1001 S. Reilly Road, Suite #639 Fayetteville, NC
design criteria responsibility of	acy of this component based on and loadings shown. It is the customer and/or the contracto moment suitability of the inter-	the 1 LVL beams must not be the 2 Refer to manufactu r to regarding installation	cut or drilled rer's product information requirements, multi-ply			301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850	28314 910-864-TRUS
application, and to	to verify the dimensions and loads.	tastening details, beam approvals 3. Damaged Beams must	strength values, and code			www.metsawood.com/us	
 Dry service co LVL not to be 	onditions, unless noted otherwise e treated with fire retardant or corro	5. Provide lateral support sive lateral displacement and	at bearing points to avoid I rotation	This design is	valid until 11/3/2024		соттесн
Version 21.804	417 Powered by iStruct™ D	ataset: 22061001 1					CON LINN

Version 21.80.417 Powered by iStruct™ Dataset: 22061001.



-	1	Client:	Benjamin Stout Re	al Estate	Date	: t bv:	8/10/2022 David Landry	Page 6 of
1	isDesign	Address:	67 Wolcott Cou	ırt	Job I Proie	Name: ect#:	Lot 5 Liberty Meadows J0822-4067	
GDH	Kerto-S L	/L 1.750"	X 18.000"	3-Ply	- PASSED	Le	evel: Level	
		••••	· · ·	•••	· · ·	•		
		• • •	•••	• •	• •	•	••••••	
	End Grain			18'10"			2 SPF End	Grain
				18'10"				
Multi Dh	Analysia							
Fasten all	plies using 3 row	s of 10d Box nails	(.128x3") at 12"	o.c Nail fro	om both sides. I	Maxir	num end distance not to	exceed
6". Capacity		0.0 %						
Load Yield Limit pe	er Foot	0.0 PLF 245.6 PLF						
Yield Limit pe Yield Mode	er Fastener	81.9 lb. IV						
Edge Distanc	ce	1 1/2"						
Min. End Disi Load Combin	tance nation	3"						
Duration Fac	tor	1.00						
							Manufacturer Info	Comtech, Inc.
Notes Calculated Struct	tured Designs is responsible only	chemicals of the Handling & Installat	ion	 For flat roofs pro- ponding 	vide proper drainage to pre-	vent N	Metsä Wood	 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA
design criteria responsibility of	and loadings shown. It is the customer and/or the contrac	the 2. Refer to manufactu tor to regarding installation	cut or drilled er's product information requirements, multi-ply				Normalk, CT 06851 Norwalk, CT 06851 800) 622-5850	28314 910-864-TRUS
application, and to Lumber	mponent suitability of the inte to verify the dimensions and loads,	fastening details, beam approvals 3. Damaged Beams must	strength values, and code tot be used			v v	vww.metsawood.com/us	
1. Dry service co 2. LVL not to be	onditions, unless noted otherwise e treated with fire retardant or con	4. Design assumes top ed 5. Provide lateral support lateral displacement and	e is laterally restrained at bearing points to avoid rotation	This design is	valid until 11/3/2024			соттесн
Version 21.80	117 Powered by istructIM	Datasat: 220610011		i nia dealgit 18	.a.a and 11/0/2024			

Version 21.80.417 Powered by iStruct™ Dataset: 22061001.1



Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0822-4067 Lot 5 Liberty Meadows

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: I53588845 thru I53588852

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



August 11,2022

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.



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-5-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-0
Plate Offsets (X,Y)	[7:0-1-8,Edge], [1	7:0-1-8,Edge]							
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING Plate Grip Lumber D0 Rep Stress Code IRC	- 2-0-0 DOL 1.00 DL 1.00 s Incr YES 2015/TPI2014	CSI. TC BC WB Matrix	0.06 0.01 0.03 <-S	DEFL. Vert(LL) Vert(CT) Horz(CT) 0.	in (loc) l/def n/a - n/a n/a - n/a 00 12 n/a	l L/d a 999 a 999 a n/a	PLATES MT20 Weight: 62 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat)				BRACING- TOP CHORD BOT CHORD	Structural wo except end ve Rigid ceiling o	od sheathing dir erticals. directly applied c	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,	

WFBS 2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat)

REACTIONS.

All bearings 13-5-0.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Gable requires continuous bottom chord bearing.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

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

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.







Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows
J0822-4067	F1	Floor	1	1	153588846
					Job Reference (optional)
Comtach Inc Equation	6 2021 MiTok Industrios, Inc. Wod Aug 10 10:58:00 2022, Page 1				

comtech, Inc, Fayetteville, NC - 28314,

0-1-8

1-3-8 1-2-8 1-2-8 1-2-8 1-2-8 1-2-8 1-2-8 1-3-0 HH

Wed Aug 10 Milek Ind ID:Mxo2zT_1o8v8CIEXCBvR1ayxNUw-aC_TRVRKCu0X8y36zuaDXeDXnKpTawlj3II7A1ypGli





 	<u>8-4-0</u> 8-4-0	<u>8-5-8</u> 0-1-8		<u> </u>		
Plate Offsets (X,Y)	[12:0-1-8,Edge], [20:0-1-8,Edge], [25:0-	1-8,Edge], [29:Edge,0-1-8]				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.41 BC 0.63 WB 0.35 Matrix-S	DEFL. ir Vert(LL) -0.09 Vert(CT) -0.12 Horz(CT) 0.02	n (loc) I/defl L/d 18-19 >999 480 18-19 >999 360 16 n/a n/a	PLATES MT20 Weight: 111 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF	 No.1(flat) No.1(flat) No.3(flat) 		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied of 6-0-0 oc bracing: 24-25,23-24	rectly applied or 6-0-0 oc or 10-0-0 oc bracing, E: 4,21-23.	; purlins, xcept:
REACTIONS. All bearings 8-5-8 except (jt=length) 16=0-3-8. (lb) Max Uplift All uplift 100 lb or less at joint(s) except 24=-116(LC 4), 25=-267(LC 4) Max Grav All reactions 250 lb or less at joint(s) 29, 24, 25, 26, 27, 28 except 23=1357(LC 1), 23=1357(LC 1), 16=634(LC 4)						

- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 6-7=0/858, 7-8=0/858, 8-10=-505/0, 10-11=-1449/0, 11-12=-1449/0, 12-13=-1488/0, 13-14=-1057/0
- BOT CHORD 24-25=-345/0, 23-24=-345/0, 20-21=0/1044, 19-20=0/1449, 18-19=0/1449, 17-18=0/1429, 16-17=0/662 WEBS 6-23=-705/0, 6-25=0/466, 8-23=-1114/0, 8-21=0/734, 10-21=-752/0, 10-20=0/598,
- 14-16=-879/0, 14-17=0/549, 13-17=-518/0

NOTES-

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

2) All plates are 1.5x3 MT20 unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 24 and 267 lb uplift at joint 25.

5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means. 6) CAUTION, Do not erect truss backwards.



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 ouclidal truss evel and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, rerection and bracing of trusses shaft muss systems, see **ANSUTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road Edenton, NC 27932





21-7-0					
			21-7-0		
Plate Offsets (X,Y)	[8:0-1-8,Edge], [20:0-1-8,Edge]				1
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.86 BC 0.71 WB 0.62 Matrix-S	DEFL.inVert(LL)-0.42Vert(CT)-0.58Horz(CT)0.09	(loc) l/defl L/d 20 >613 480 20-21 >444 360 15 n/a n/a	PLATES GRIP MT20 244/190 M18AHS 186/179 Weight: 113 lb FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) WEBS 2x4 SP No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.		
REACTIONS. (size) 25=0-3-8, 15=0-3-8 Max Grav 25=1167(LC 1), 15=1167(LC 1)					
FORCES. (lb) - Ma TOP CHORD 2-3 8-1	x. Comp./Max. Ten All forces 250 (lb) or =-2204/0, 3-4=-3798/0, 4-5=-3798/0, 5-6= 0=-4749/0, 10-11=-3802/0, 11-12=-3802/0	less except when shown. -4756/0, 6-7=-5128/0, 7-8 0, 12-13=-2203/0	=-5128/0,		
BOT CHORD 24 17 WEBS 13	25=0/1276, 23-24=0/3102, 21-23=0/4408 -18=0/4399, 16-17=0/3103, 15-16=0/1275 15=-1695/0, 13-16=0/1291, 12-16=-1251/	, 20-21=0/5062, 19-20=0/5 6 0, 12-17=0/951, 10-17=-8	5128, 18-19=0/5128, 11/0, 10-18=0/607,		

2-25=-1696/0, 2-24=0/1292, 3-24=-1249/0, 3-23=0/946, 5-23=-828/0, 5-21=0/485, 6-21=-471/0, 6-20=-297/542, 8-18=-785/0, 8-19=-149/254

NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

3) All plates are 1.5x3 MT20 unless otherwise indicated.

4) Plates checked for a plus or minus 1 degree rotation about its center.

5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.







	7-10-8		21-7-0				
	7-10-8			13-8-8		1	
Plate Offsets (X,Y)	[9:0-1-8,Edge], [21:0-3-0,0-0-0]						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.97 BC 0.44 WB 0.70 Matrix-S	DEFL. in Vert(LL) -0.36 Vert(CT) -0.49 Horz(CT) 0.05	(loc) l/defl L/ 22 >718 48 22 >519 36 16 n/a n/	/d PLATES 30 MT20 30 M18AHS /a Weight: 145 lb	GRIP 244/190 186/179 FT = 20%F, 11%E	
LUMBER- BRACING- TOP CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied, except end verticals. BOT CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2x4 SP No.3(flat) REACTIONS. (size) 27=0-3-8, 16=0-3-8 Max Grav 27=1242(LC 1), 16=1182(LC 1) Heat the second secon						end verticals.	
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-2507/0, 4-5=-4202/0, 5-6=-4195/0, 6-7=-5160/0, 7-8=-5507/0, 8-9=-5507/0, 9-11=-5061/0, 11-12=-4047/0, 12-13=-4047/0, 13-14=-2340/0 BOT CHORD 26-27=0/1410, 25-26=0/3622, 23-25=0/4815, 22-23=0/5455, 21-22=0/5507, 20-21=0/5507, 18-20=0/4693, 17-18=0/3303, 16-17=0/1353 WEBS 14-16=-1758/0, 14-17=0/1340, 13-17=-1306/0, 13-18=0/989, 11-18=-857/0, 11-20=0/587, 2-27=-1832/0, 2-26=0/1474, 4-26=-1489/0, 4-25=0/743, 6-25=-823/0, 6-23=0/468, 7-23=-463/0, 7-22=-283/454, 9-20=-896/0, 9-21=-179/407							

NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 170 lb down at 3-7-12 on top

chord. The design/selection of such connection device(s) is the responsibility of others.

6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 16-27=-10, 1-15=-100

Concentrated Loads (lb)

Vert: 30=-90(B)



August 11,2022

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1-3-0 H

1-4-12 0-1-8 Scale = 1:30.1 _ F



0-4-0 0-4-0	<u>4-8-4</u> <u>4-9-12</u> <u>4-4-4</u> 0-1-8			18-1-0 13-3-4			
Plate Offsets (X,Y)	[5:0-1-8,Edge], [6:0-1-8,Edge], [1	1:0-1-8,Edge], [20:0-1-8,Edge]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.50 BC 0.68 WB 0.36 Matrix-S	DEFL. ir Vert(LL) -0.09 Vert(CT) -0.12 Horz(CT) 0.02	n (loc) l/defl 18-19 >999 18-19 >999 18-19 >999 16 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 100 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S REACTIONS. (si Max	SP No.1(flat) SP No.1(flat) SP No.3(flat) ze) 23=0-3-0, 16=0-3-8 Grav 23=1344(LC 1), 16=691(LC	4)	BRACING- TOP CHORD BOT CHORD	Structural wood except end verti Rigid ceiling dire 10-0-0 oc bracir	sheathing dire icals. ectly applied or ng: 26-27,17-18	ectly applied or 6-0-0 c 6-0-0 oc bracing, E 8,16-17.	oc purlins, xcept:
FORCES. (lb) - Max TOP CHORD 5-6= 11- BOT CHORD 25-2	c. Comp./Max. Ten All forces 250 =0/477, 6-7=0/1040, 7-8=0/1040, 8 13=-1730/0, 13-14=-1180/0 26=-477/0, 24-25=-477/0, 23-24= 0, 44/1785, 49, 40, 44/1785, 47	0 (lb) or less except when shown. -9=-997/500, 9-10=-1785/41, 10 477/0, 22-23=-727/520, 20-22=-2	-11=-1785/41, 280/1471,				

19-20=-41/1785, 18-19=-41/1785, 17-18=0/1606, 16-17=0/729 3-26=-253/0, 5-26=0/569, 6-23=-803/0, 8-23=-1156/0, 8-22=0/758, 9-22=-773/0, 9-20=0/710, 10-20=-289/0, 14-16=-967/0, 14-17=0/627, 13-17=-593/0 WEBS

NOTES-

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

2) All plates are 3x4 MT20 unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



August 11,2022





16

1.5x3 ||

15

1.5x3 ||

14

3x4 =

13

4x4 =

3x6 =

L				18-1-0				
				18-1-0				I
Plate Offsets	ts (X,Y)	[6:0-1-8,Edge], [7:0-1-8,Edge]						
LOADING (j TCLL 4 TCDL 1 BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.74 BC 0.83 WB 0.48 Matrix-S	DEFL. in Vert(LL) -0.28 Vert(CT) -0.38 Horz(CT) 0.05	(loc) l/dei 16-17 >758 16-17 >558 12 n/s	fl L/d 8 480 8 360 a n/a	PLATES MT20 M18AHS Weight: 94 lb	GRIP 244/190 186/179 FT = 20%F, 11%E
LUMBER- TOP CHORE BOT CHORE WEBS	2x4 SP D 2x4 SP 2x4 SP 2x4 SP	No.1(flat) 2400F 2.0E(flat) No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wo except end v Rigid ceiling	ood sheathing dir erticals. directly applied o	ectly applied or 5-9-4 or 10-0-0 oc bracing.	oc purlins,
REACTIONS	I S. (size Max Gr	e) 21=0-3-8, 12=0-3-8 rav 21=975(LC 1), 12=975(LC 1)						
FORCES. TOP CHORI	(lb) - Max. (D 2-3=-1 9-10=	Comp./Max. Ten All forces 250 (lb) or 1788/0, 3-4=-2968/0, 4-5=-2968/0, 5-6= 1790/0	less except when shown. -3518/0, 6-7=-3509/0, 7-9=	-2933/0,				
BOT CHORE	20-21 20-21 13-14	=0/1057, 19-20=0/2487, 17-19=0/3397, 4=0/2478, 12-13=0/1060	16-17=0/3509, 15-16=0/35	509, 14-15=0/3509,				
WEBS	10-12	=-1409/0 10-13=0/1015 9-13=-957/0	9-14=0/656 7-14=-919/0 7	'-15=-48/344				

2-21=-1405/0, 2-20=0/1016, 3-20=-972/0, 3-19=0/655, 5-19=-583/0, 5-17=0/339, 6-17=-375/282, 6-16=-308/84

NOTES-

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

20

4x4 =

3x6 =

19

3x6 =

18

3x8 M18AHS FP =

17

3x4 =

2) All plates are MT20 plates unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





Job	Truss	Truss Type	Qty	Ply	Lot 5 Liberty Meadows
10922 4067	FF	Floor	2	1	153588851
30822-4067	F5		3	· ·	Job Reference (optional)
Comtech, Inc, F	ayetteville, NC - 28314,	•	8.4	30 s Aug 1	6 2021 MiTek Industries, Inc. Wed Aug 10 10:58:14 2022 Page 1

H

0-4-0 1-3-0 ⊢

ID:Mxo2zT_1o8v8CIEXCBvR1ayxNUw-x9nMUDUS1QeqFjy4mSAOEiwMkLRTF6mSCaSurEypGld



0-4-ρ			21-7-0			
0-4-0			21-3-0			1
Plate Offsets (X,Y)	[1:0-3-0,Edge], [8:0-1-8,Edge], [9:0-1-8,	Edge]				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.52 BC 0.96 WB 0.62 Matrix-S	DEFL. in Vert(LL) -0.35 Vert(CT) -0.48 Horz(CT) 0.01	n (loc) I/defl L/d 21 >717 480 21 >522 360 16 n/a n/a	PLATES MT20 M18AHS Weight: 115 lb	GRIP 244/190 186/179 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP REACTIONS. (size Max G	P No.1(flat) P No.1(flat) P No.3(flat) e) 1=0-3-8, 16=0-3-0 rav 1=927(LC 1), 16=922(LC 1)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing di except end verticals. Rigid ceiling directly applied 2-2-0 oc bracing: 21-22,20-2	rectly applied or 6-0-0 c or 10-0-0 oc bracing, 1 1.	oc purlins, Except:

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 1-2=-1000/0, 2-4=-1000/0, 4-5=-2427/0, 5-6=-3434/0, 6-7=-3434/0, 7-8=-3922/0,

8-9=-4011/0, 9-11=-3722/0, 11-12=-2992/0, 12-13=-2992/0, 13-14=-1737/0

- BOT CHORD $25\text{-}26\text{-}0/1815, \ 23\text{-}25\text{-}0/3016, \ 22\text{-}23\text{-}0/3792, \ 21\text{-}22\text{-}0/4011, \ 20\text{-}21\text{-}0/4011, \ 19\text{-}20\text{-}0/4011, \ 19\text{-}20\text{-}0/4011, \ 10\text{-}20\text{-}0/4011, \ 10\text{-}0/4011, \ 10\text{$ 18-19=0/3457, 17-18=0/2444, 16-17=0/1007
- 1-26=0/1302, 14-16=-1338/0, 14-17=0/1015, 13-17=-984/0, 13-18=0/745, 11-18=-632/0, 11-19=0/461, 9-19=-587/4, 4-26=-1108/0, 4-25=0/850, 5-25=-820/0, 5-23=0/568, WEBS 7-23=-487/0, 7-22=-21/337, 8-22=-406/185

NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

3) All plates are 3x4 MT20 unless otherwise indicated.

4) Plates checked for a plus or minus 1 degree rotation about its center.

5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

7) CAUTION, Do not erect truss backwards.







			3-8-8			
Plate Offsets (X,Y)	[9:0-1-8,0-1-8]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.04 BC 0.05 WB 0.05 Matrix-S	DEFL. ir Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) 0.00	n (loc) I/defi L/d) 7 >999 480) 6 >999 360) 5 n/a n/a	PLATES MT20 Weight: 27 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF	² No.1(flat) ² No.1(flat) ² No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o	ectly applied or 3-8-8 r 10-0-0 oc bracing.	oc purlins,

REACTIONS. (size) 8=Mechanical, 5=0-4-0

Max Grav 8=190(LC 1), 5=184(LC 1)

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

NOTES-

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

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Refer to girder(s) for truss to truss connections.

Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
 Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.





