Job Estimate

ComTech	1

ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park P.O. Box 40408 Fayetteville, N.C. 28309 (910) 864-TRUS Cary Office: (919) 816-0105

		DATE	105/29/19 PAGE 1
REQ. QUOTE DATE	11	ORDER#	J0519-2500
ORDER DATE	05/28/19	QUOTE #	
DELIVERY DATE	11	CUSTOMER ACCT #	0000006995
DATE OF INVOICE	11	CUSTOMER PO#	
ORDERED BY	Steve Thomas	INVOICE #	
SUPERINTENDANT	Steve Thomas	SALES REP	Bob Lewis
JOBSITE PHONE #	(919) 906-4069		
DESIGNER	BL	TRACKING	Bob Lewis

	Thomas Properties of Harnett	JOB NAME: 1169 LAWREN	NCE RD	LOT#	SUBDIV:
OL	PO Box 875	MODEL:ROOF	TAG: HANDDRAWN PLAN	JOB CATEGO	ORY:Residential - Roof
D FO	Thomas Properties of Harnett PO Box 875 Broadway, NC 27505 (919) 258-9327/9064069	DELIVERY INSTRUCTIONS:			
SHHP FO	THOMAS PROP. OF 1169 LAWRENCE RD BROADWAY, NC	SPECIAL INSTRUCTIONS:			PLAN SEAL DATE: NONE

ROOF TRUSSES

PROFILE	QTY	PIT	СН	ID	SPAN	LUI	MBER	OVE	RHANG	CANT	LEVER	NOTES
PROFILE	PLY	TOP	BOT	טו	FT-IN-16	TOP	BOT	LEFT	RIGHT	LEFT	RIGHT	NOTES
- Malana	10	4.00	0.00	A1	20-00-00	2 X 4	2 X 4	01-02-08	01-02-08			
	2	4.00	0.00	A1GE	20-00-00	2 X 4	2 X 4	01-02-08	01-02-08			
March St. Comment	4	4.00	0.00	A2	20-00-00	2 X 4	2 X 4	01-02-08				
"ANTONION CONTRACTOR	9	4.00	0.00	B1	12-00-00	2 X 4	2 X 4	01-02-08	01-02-08			
Marriag Jackson Ser	1	4.00	0.00	B1GE	12-00-00	2 X 4	2 X 4	01-02-08	01-02-08			
	1	Truss	Drawings	With B-1 an	d B-3 Bracing	And F	landlin	g Instruction	ons (Includ	ed in trus	ss price)	

ROOF SUB-TOTAL: \$ 1,477.57

Prices quoted are valid for thirty days unless otherwise sp foundation installation or plan changes may require addition	orice herein specified only the articles named and described herein. ecified. Additional design time made necessary by incorrect onal charges. This estimate includes sealed engineering of individual eering services will be billed in quarter hour increments as costs	SUB-TOTAL	\$1,477.57
ACCEPTED BY SELLER	ACCEPTED BY BUYER PURCHASER:	SALES TAX 7.00%	\$103.42
BY:	BY: TITLE:	GRAND TOTAL	\$1580.99
DATE OF ACCEPTANCE:	ADDRESS:		
	PHONE: DATE:		

WARNING: As part of this proposal, we warn that trusses can be dangerous and cause property damage or personal injury if improperly installed and / or braced. Customer acceptance hereof shall constitute his affirmative representation to us that he is trained in the proper and safe methods of truss installation and bracing, and will use such methods. Customer acknowledges receipt of instructional pamphlet entitle: 'Bracing Wood Trusses: Commentary and recommendations', HIB-91, as published by the Truss Plate Institute, Inc., and also the engineering drawings showing the required lateral bracing. By his acceptance, Customer agrees, for himself, his agents and employees, to hold Comtech Inc. harmless from any and all actions for property damage, personal injury, or wrongful death resulting from improper installation and / or bracing during erection of the trusses comprehended hereby.



Client: Project:

Address:

THOMAS PROPERTIES OF HARNETT CO. LLC

Date:

5/28/2019

Page 2 of 2

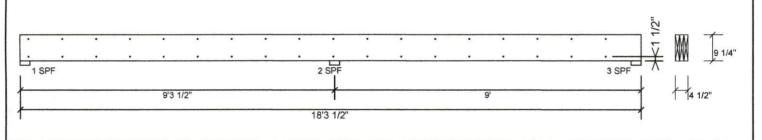
Designer: Bob Lewis Job Name: 1169 LAWRENCE ST

Project #: J0519-2500

(3) 2X10 BBO **SP #2** 2.000" X 10.000"

3-Ply - PASSED

Level: Level



Multi-Ply Analysis

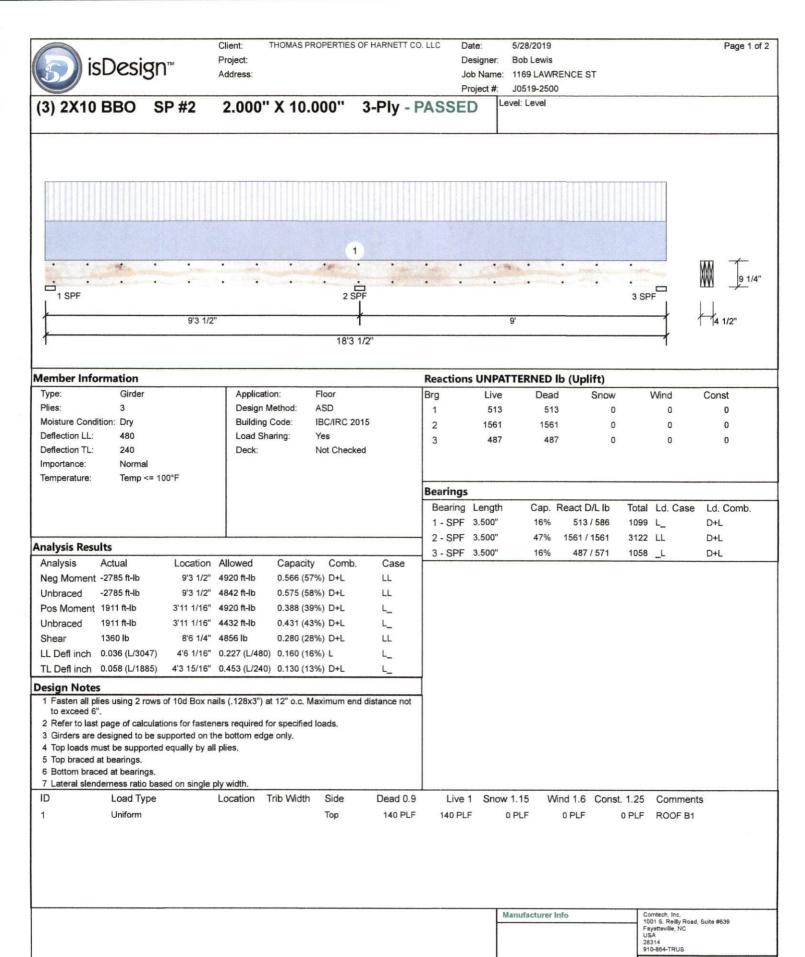
Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Nail from both sides. Maximum end distance not to exceed 6"

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	202.6 PLF
Yield Limit per Fastener	101.3 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS Manufacturer Info

This design is valid until 10/18/2021





28314 910-884-TRUS



Trenco

818 Soundside Rd Edenton, NC 27932

Re: J0519-2500

1169 LAWRENCE RD

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: E13098798 thru E13098802

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



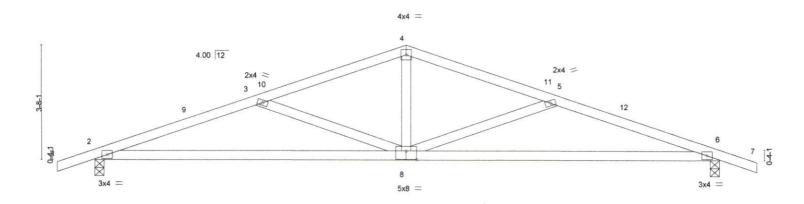
May 29,2019

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	1169 LAWRENCE RD	
J0519-2500	A1	Common	10	1		E13098798
3 2000 10 30 30 30 30 30 30 30 30 30 30 30 30 30	100000	PER PERSONAL PROPERTY	1000		Job Reference (optional)	
Comtech, Inc.,	Fayetteville, NC 28309		8.	130 s Mar	11 2018 MiTek Industries, Inc. Tue May 28 14:	:11:34 2019 Page 1
			ID:lKljul4F5cFl	I1wBaXe2	5Tzq7?H-1qAAtl1?Hp919AdxKmH_Q9NsX0rrD	MyZvH1VsWzBxyN
-1-2-8	5-4-11	10-0-0	11	4-7-5	20-0-0	21-2-8
1-2-8	5-4-11	4-7-5	4	-7-5	5-4-11	1-2-8

Scale = 1:35.9



	-		10-0-0 10-0-0							20-0-0 10-0-0		
Plate Offse	ts (X,Y)	[8:0-4-0,0-3-4]		-								
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	0.27	Vert(LL)	-0.19	2-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.40	2-8	>594	240	000000000	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	k-S	Wind(LL)	0.05	8	>999	240	Weight: 84 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD WEBS 2x4 SP No.3

REACTIONS. (lb/size) 6=870/0-3-8, 2=870/0-3-8

Max Horz 2=-45(LC 17)

Max Uplift 6=-112(LC 9), 2=-112(LC 8)

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

TOP CHORD 2-3=-1779/477, 3-4=-1330/297, 4-5=-1330/297, 5-6=-1779/477

BOT CHORD 2-8=-385/1648, 6-8=-398/1648

WEBS 4-8=-31/578, 5-8=-483/269, 3-8=-483/269

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 10-0-0, Exterior(2) 10-0-0 to 14-4-13 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 6=112, 2=112.



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

Rigid ceiling directly applied or 9-8-11 oc bracing.

🔔 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

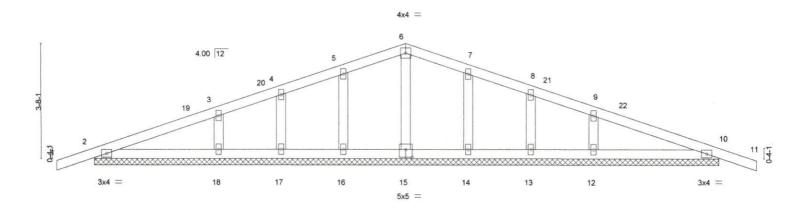
ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job		Truss	Truss Type	Qty	Ply	1169 LAWRENCE RD	
						ASSESSMENT AND CONTRACTOR OF THE PROPERTY OF T	E13098799
J0519-2500		A1GE	Common Supported Gable	2	1		
			•			Job Reference (optional)	
Comtech Inc	Favette	ville NC 28309		Я	130 s Mar	11 2018 MiTek Industries Inc. Tue May	28 14-11-35 2019 Page 1

-1-2-8 1-2-8 10-0-0 ID:IKIjuI4F5cFII1wBaXe25Tzq7?H-V0kY4e1d27HunJC7uTpDzMw4gPMCys1j8xm2OyzBxyM 20-0-0 21-2-8

Scale = 1:35.9



Dieta Office	-t- (V V)	[45.0.0.0.0.0]				20-0-0						
Plate Offse	ets (X,Y)	[15:0-2-8,0-3-0]										
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	0.12	Vert(LL)	0.00	11	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.01	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	k-S						Weight: 86 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.3 **OTHERS**

BRACING-

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

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

REACTIONS. All bearings 20-0-0

(lb) - Max Horz 2=-76(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 17, 14, 13 except 18=-103(LC 12), 12=-102(LC 13),

10=-107(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 2, 15, 16, 17, 14, 13, 10 except 18=303(LC 23), 12=303(LC

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-2-8 to 3-2-5, Exterior(2) 3-2-5 to 10-0-0, Corner(3) 10-0-0 to 14-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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, 16, 17, 14, 13 except (jt=lb) 18=103, 12=102, 10=107.



A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

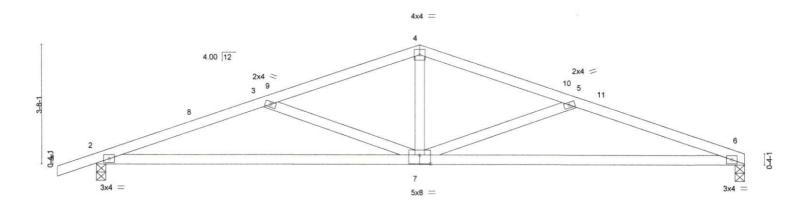
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ASI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss		Truss Type			Qty	Ply	1169 LAWRENCE RD		
J0519-2500	A2		Common			4	1			E13098800
	1.5		processor districted.					Job Reference (optional)		
Comtech, Inc.,	Fayetteville, NO	28309				8	130 s Mar	11 2018 MiTek Industries	Inc. Tue May 28 14:11:36	2019 Page 1
					ID:IKI	jul4F5cFl	1wBaXe28	Tzq7?H-zClwl_2FpRPkP	TnJSBKSVaSBvpX7hGJsNb	WbxOzBxyL
-1-2-8		5-4-11		10-0-0			14-7-5		20-0-0	1
1-2-8		5-4-11		4-7-5			4-7-5		5-4-11	

Scale = 1:34.6



	-		10-0-0					<u> </u>		20-0-0		
Plate Offse	ets (X,Y)	[7:0-4-0,0-3-4]										
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	0.34	Vert(LL)	-0.19	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.42	6-7	>565	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	c-S	Wind(LL)	0.06	6-7	>999	240	Weight: 82 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 **WEBS**

REACTIONS. (lb/size) 6=786/0-3-8, 2=872/0-3-8 Max Horz 2=50(LC 16)

Max Uplift 6=-62(LC 9), 2=-113(LC 8)

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

TOP CHORD 2-3=-1788/501, 3-4=-1339/309, 4-5=-1340/322, 5-6=-1803/517

BOT CHORD 2-7=-431/1657, 6-7=-435/1673

WEBS 4-7=-52/581, 5-7=-500/279, 3-7=-483/270

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 10-0-0, Exterior(2) 10-0-0 to 14-4-13 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 6 except (jt=lb) 2=113.



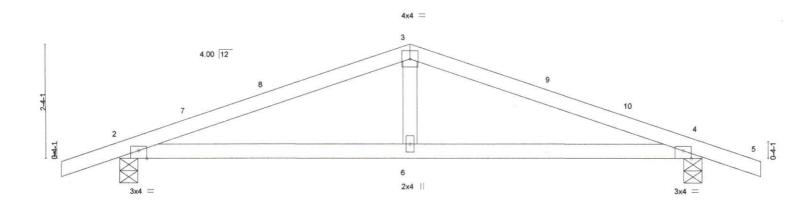
Structural wood sheathing directly applied or 4-2-9 oc purlins.

Rigid ceiling directly applied or 9-3-11 oc bracing.

818 Soundside Road Edenton, NC 27932

lob	Truss	Truss Type	Qty	Ply	1169 LAWRENCE RD	
				(100)		E13098801
10519-2500	B1	Common	9	1		
					Job Reference (optional)	
Comtech, Inc., Fayette	ville, NC 28309		8.	30 s Mar	11 2018 MiTek Industries, Inc. Tue May 28 14:11:38 2	2019 Page 1
Security of the contract of the security of th		ID:II	Kljul4F5cF	II1wBaXe2	5Tzq7?H-RPsIVK3tZkXb0dMW0urh2n?MYD_NQls0cl	FF9TqzBxyK
-1-2-8		3-0-0			12-0-0	13-2-8
1.2.8		3.0.0			6.0.0	1-2-8

Scale = 1:23.1



	H				12-0-0 6-0-0							
Plate Offse	ets (X,Y)	[2:0-2-0,Edge], [4:0-2-0,E	6-0-0 Edge]							0-0-0		
LOADING	**	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL TCDL	20.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC BC	0.35	Vert(LL) Vert(CT)	0.08 -0.07	4-6 2-6	>999 >999	240 240	MT20	244/190
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2015/Ti	YES PI2014	WB Matri	0.11 x-S	Horz(CT)	0.01	4	n/a	n/a	Weight: 43 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WEBS

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

2x4 SP No.3

REACTIONS. (lb/size) 2=549/0-4-8, 4=549/0-4-8

Max Horz 2=-29(LC 17)

Max Uplift 2=-219(LC 8), 4=-219(LC 9)

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

TOP CHORD 2-3=-830/899, 3-4=-830/899

BOT CHORD 2-6=-764/730, 4-6=-764/730 **WEBS** 3-6=-350/277

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 6-0-0, Exterior(2) 6-0-0 to 10-4-13 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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=219, 4=219.



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

Rigid ceiling directly applied or 6-10-11 oc bracing.

May 29,2019

▲ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE Mit-7473 rev. 10/03/2015 BEFORE U.S.E.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

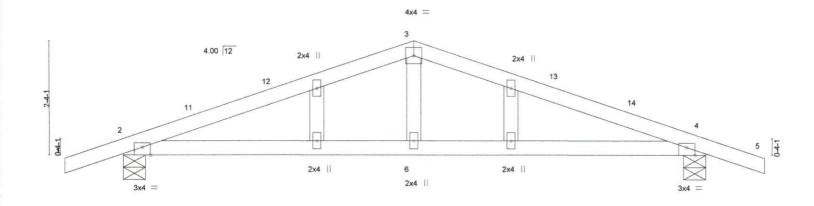
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	1169 LAWRENCE RD	E40000000
J0519-2500	B1GE	GABLE	1	1		E13098802
		100000000			Job Reference (optional)	
Comtech, Inc., Fayette	ville, NC 28309		8.	30 s Mar	11 2018 MiTek Industries, Inc. Tue May 28 14:11:39 2	019 Page 1
		II	D:IKljul4F5	cFII1wBa>	(e25Tzq7?H-Nnz3w0575MnJGxWu7Jt97C4i81gwufNl	3ZkGXjzBxyl
-1-2-8		5-0-0			12-0-0	13-2-8
1-2-8		3-0-0			6-0-0	1-2-8

Scale = 1:23.1



	-			12-0-0 6-0-0								
Plate Offse	ets (X,Y)	[2:0-2-0,Edge], [4:0-2-0,E	6-0-0 Edge]							0-0-0		
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	0.34	Vert(LL)	0.08	4-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.06	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S						Weight: 47 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3 **OTHERS** 2x4 SP No.3

REACTIONS. (lb/size) 2=548/0-5-8, 4=548/0-5-8

Max Horz 2=-49(LC 13)

Max Uplift 2=-312(LC 8), 4=-312(LC 9)

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

TOP CHORD 2-3=-817/885, 3-4=-817/885 **BOT CHORD** 2-6=-750/717, 4-6=-750/717

WEBS 3-6=-346/275

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 6-0-0, Exterior(2) 6-0-0 to 10-4-13 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=312, 4=312,



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

Rigid ceiling directly applied or 6-11-8 oc bracing.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7413 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see MSKITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

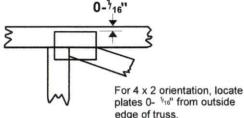


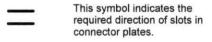
Symbols

PLATE LOCATION AND ORIENTATION



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





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

PLATE SIZE

4 x 4

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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.

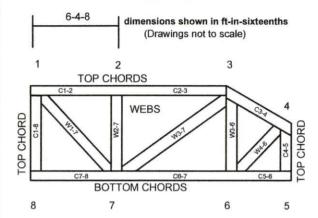
DSB-89:

BCSI:

Design Standard for Bracing. Building Component Safety Information,

Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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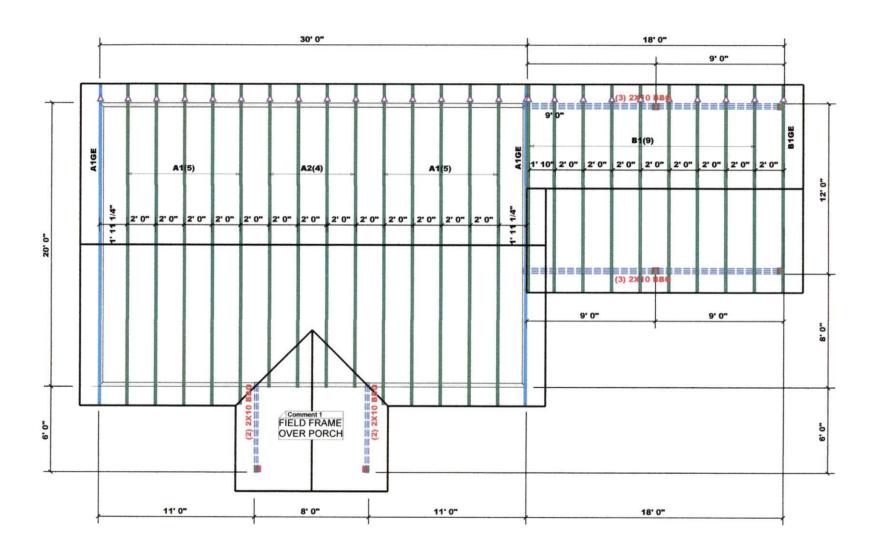
MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- 2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- 3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- 4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other.
- 6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- 7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- 8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- 9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- 16. Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- 19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.



соттесн

ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

Bob Lewis

Bob Lewis

LOAD CHART FOR JACK STUDS SAMBLE ON TARGET ROUTING & SEA MAJERIES OF LANG STREET ROUTING OF CAS OF TRADPORTURES

2550 4 10200 4 12750 5 15300 6 3400 1 6800 2 10200 3 19600 4 17000 5

BUILDER	BUILDER THOMAS PROP. OF HARNETT CO	CITY / CO.	CITY / CO. BROADWAY / HARNETT
JOB NAME	JOB NAME 1169 LAWRENCE RD	ADDRESS	ADDRESS 1169 LAWRENCE RD
PLAN	HANDDRAWN PLAN	MODEL	ROOF
SEAL DATE NONE	NONE	DATE REV. 05/28/19	05/28/19
QUOTE #	Quote #	DRAWN BY Bob Lewis	Bob Lewis
108#	J0519-2500	SALES REP. Bob Lewis	Bob Lewis

A = Indicates Left End of Truss

(Reference Engineered Truss Drawing)

Do NOT Erect Truss Backwards

Reaction Summary of Order

ROOF & FLOOR ComTech | TRUSSES & BEAMS Reilly Road Industrial Park P.O. Box 40408

Fayetteville, N.C. 28309 (910) 864-TRUS Cory Office: (919) 815-0105

REQ. QUOTE DATE	11	ORDER#	J0519-2500
ORDER DATE	05/28/19	QUOTE #	
DELIVERY DATE	11	CUSTOMER ACCT #	0000006995
DATE OF INVOICE	11	CUSTOMER PO #	
ORDERED BY	Steve Thomas	INVOICE #	
COUNTY	HARNETT	TERMS	
SUPERINTENDANT	Steve Thomas	SALES REP	Bob Lewis
JOBSITE PHONE #	(919) 906-4069	SALES AREA	Bob Lewis

Thomas Properties of Harnett PO Box 875 Broadway, NC 27505

JOB NAME: 1169 LAWRENCE RD MODEL: ROOF TAG: HANDDRAWN PLAN LOT# SUBDIV:

JOB CATEGORY: Residential - Roof

(919) 258-9327/9064069

THOMAS PROP. OF 1169 LAWRENCE RD BROADWAY, NC

SPECIAL INSTRUCTIONS:

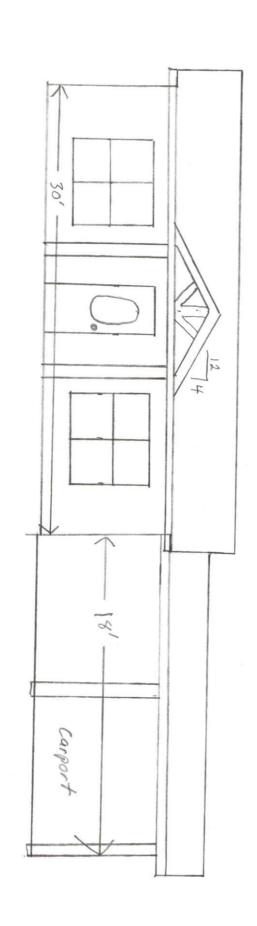
DELIVERY INSTRUCTIONS:

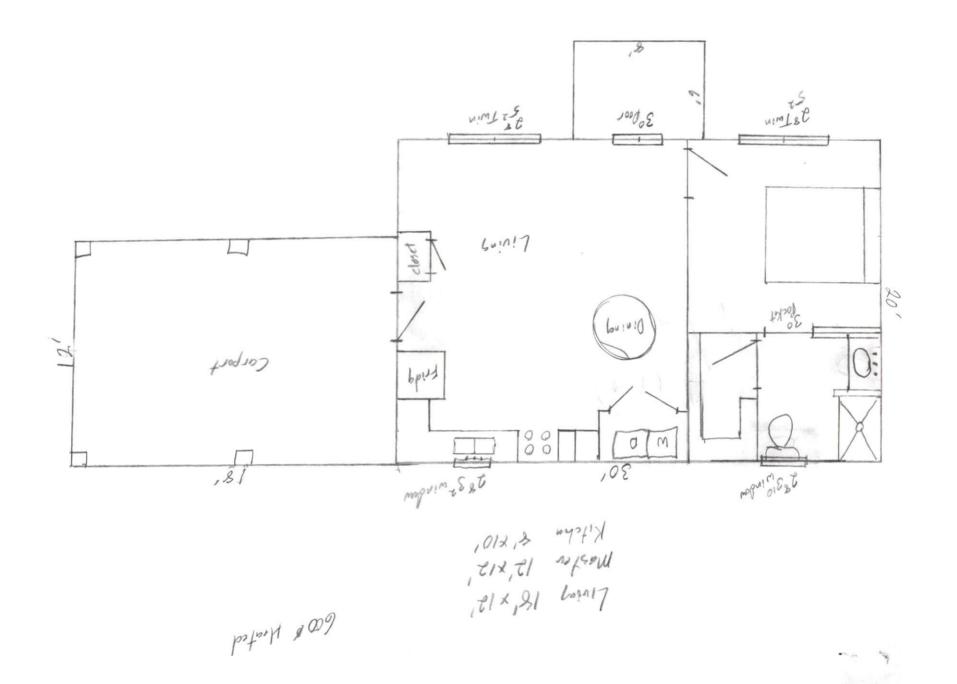
PLAN SEAL DATE: NONE BY

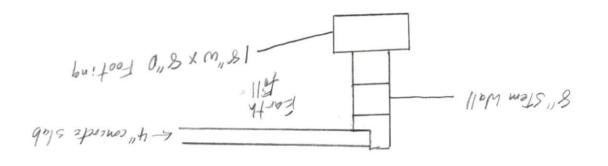
DATE OF 100 140 DAGE 4

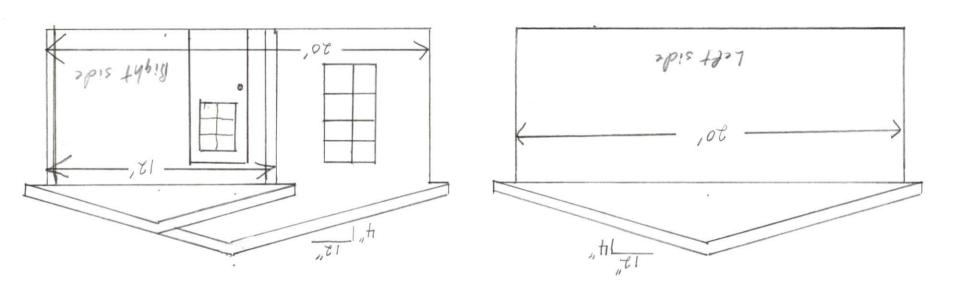
DATE BUILDING DEPARTMENT OVERHANG INFO HEEL HEIGHT 00-04-05 REQ. LAYOUTS **REQ. ENGINEERING** 05/28/19 QUOTE BL END CUT RETURN Roof Order LAYOUT BL 05/28/19 PLUMB GABLE STUDS 1 CUTTING BL 24 IN. OC JOBSITE JOBSITE 05/28/19

ROOF TRUSSES LOADING INFORMATION				TCLL-TCDL-BCLL-BCDL STRESS INCR. 20.0,10.0,0.0,10.0 1.15			ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)							
PROFILE	QTY PLY	TOP	СН	TYPE ID	BASE	LUN	/BER	OVEF LEFT	RHANG	REACTIO)NS			
Market Colonia	. 10	4.00		COMMON A1	20-00-00			01-02-08	-	Joint 2 869.6 lbs. -112.3 lbs.	Joint 6 869.6 lbs. -112.3 lbs.			
	. 2	4.00	0.00	COMMON A1GE	20-00-00 20-00-00	2 X 4	2 X 4	01-02-08	01-02-08	Joint 2 219.6 lbs. -97.2 lbs.	Joint 10 219.6 lbs. -106.8 lbs.	Joint 12 303.5 lbs. -102.4 lbs.	Joint 13 98.1 lbs. -41.9 lbs.	Joint 14 184.5 lbs. -64.2 lbs.
And the state of the last	. 4	4.00	0.00	COMMON A2	20-00-00 20-00-00		2 X 4	01-02-08		Joint 2 872.4 lbs. -112.6 lbs.	Joint 6 785.5 lbs. -61.5 lbs.			
Contraction of the State of the	. 9	4.00	0.00	COMMON B1	12-00-00 12-00-00		2 X 4	01-02-08	01-02-08	Joint 2 548.8 lbs. -219.1 lbs.	Joint 4 548.8 lbs. -219.1 lbs.			
Samuel J. James	. 1	4.00	0.00	GABLE B1GE	12-00-00 12-00-00	2 X 4	2 X 4	01-02-08	01-02-08	Joint 2 547.9 lbs. -312.2 lbs.	Joint 4 547.9 lbs. -312.2 lbs.			









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