

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: Burke_FL
LGI Homes

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource (Albermarle,NC).

Pages or sheets covered by this seal: E12536145 thru E12536159

My license renewal date for the state of North Carolina is December 31, 2018.

North Carolina COA: C-0844



December 18, 2018

Lassiter, Frank

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	LGI Homes	E12536145
BURKE_FL	F1E	Floor Supported Gable	2	1		

Builders FirstSource, Albemarle, NC 26001

8.220 s Nov 16 2018 MITek Industries, Inc. Tue Dec 18 12:45:23 2018 Page 1

ID:r7hMojZbxPenI_bpb7z5FgypDqE-nO4Xao1miYZAW8hU8ImQM5ZF:GQVR5ZP6JRADwy7jww

0-1/8"

Scale = 1:30.7

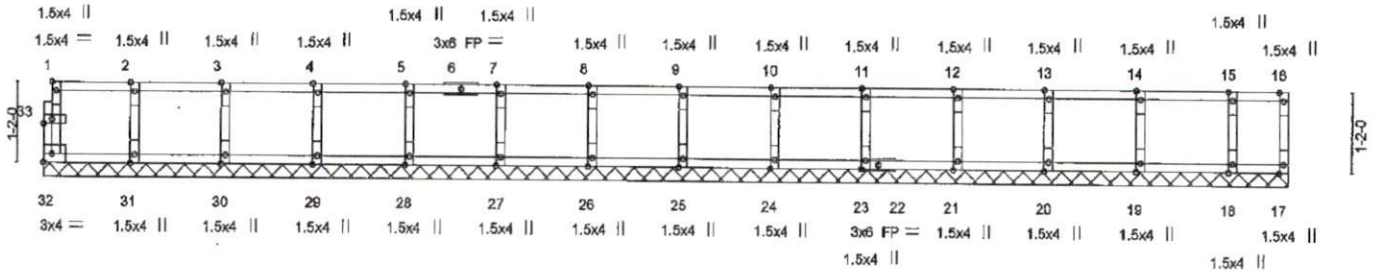


Plate Offsets (X,Y)-- [1:Edge:0-0-12], [33:0-1-8,0-0-12]		18-1-12		18-1-12		18-1-12	
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES
TCLL 40.0	2-0-0	TC 0.08	Vert(LL) n/a	-	n/a	999	MT20
TCDL 10.0	Plate Grip DOL 1.00	BC 0.01	Vert(CT) n/a	-	n/a	999	GRIP
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Horz(CT) 0.00	17	n/a	n/a	244/190
BCDL 5.0	Rep Stress Incr YES	Matrix-R					Weight: 75 lb
	Code IRC2015/TPI2014						FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

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.

All bearings 18-1-12.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 25, 24, 23, 21, 20, 19, 18

FORCES.

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

NOTES-

- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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.
- CAUTION, Do not erect truss backwards.



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2016 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 ANS/TP1 Quality Criteria, DSB-89 and BCSJ Building Component Safety Information available from Truss Plate Institute, 216 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MITek Affiliate

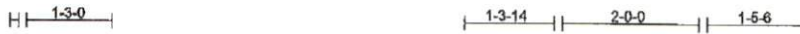
818 Soundside Road
 Edenton, NC 27832

Job	Truss	Truss Type	Qty	Ply	LGI Homes	E12536146
BURKE_FL	F2	Floor	8	1		

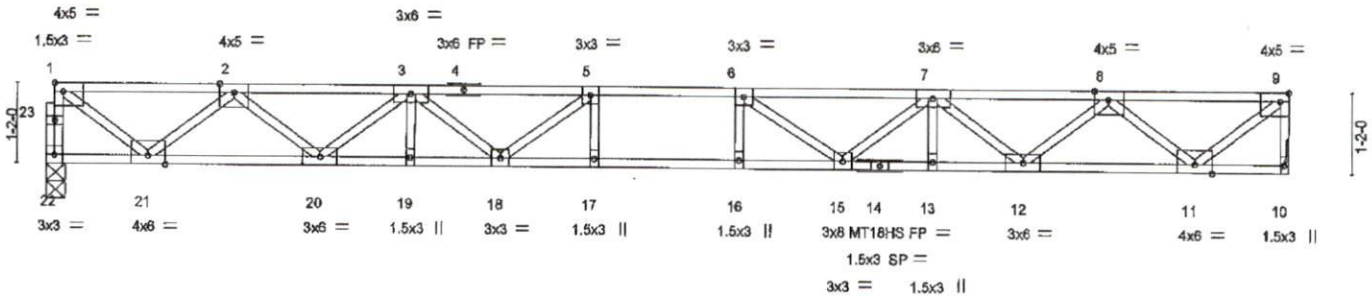
Builders FirstSource, Albemarle, NC 28001

8.220 s Nov 16 2018 MITEK Industries, Inc. Tue Dec 18 12:45:24 2018 Page 1
ID:r7hMoJZbxPenl_bpb7z5FgypDqB-Faev082OTsh18GhgbHfvreYjgXZAOoYkzAkmlNy7jww

0-1-8



Scale = 1:30.8



1-6-0	4-0-0	6-7-8	8-0-14	9-0-14	10-0-14	11-7-12	14-3-4	16-9-4	18-1-12
1-6-0	2-8-0	2-7-8	1-5-6	1-0-0	1-0-0	1-6-14	2-7-8	2-6-0	1-4-8

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	2-0-0	Plate Grip DOL	1.00	TC	0.87	ln (loc)	l/defl	L/d	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.99	Vert(LL)	-0.31 16-17	>706	480	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	-0.42 16-17	>513	240		
BCDL	5.0	Code IRC2015/TPI2014		Matrx-SH			0.08 10	n/a	n/a		
										Weight: 91 lb	FT = 20%F, 11%E

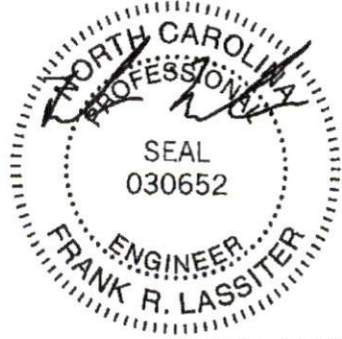
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP 2400F 2.0E(flat) *Except* 10-14: 2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 13-15,12-13.
WEBS	2x4 SP No.3(flat)		

REACTIONS. (lb/size) 22=981/0-3-8, 10=988/Mechanical

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

TOP CHORD	1-22=-976/0, 9-10=-981/0, 1-2=-1155/0, 2-3=-2850/0, 3-5=-3874/0, 5-6=-4228/0, 6-7=-3856/0, 7-8=-2820/0, 8-9=-1104/0
BOT CHORD	20-21=0/2174, 18-20=0/3538, 18-19=0/3538, 17-18=0/4228, 16-17=0/4228, 15-16=0/4228, 13-15=0/3516, 12-13=0/3516, 11-12=0/2132
WEBS	1-21=0/1400, 2-21=-1326/0, 2-20=0/880, 3-20=-877/0, 3-18=0/487, 5-18=-716/3, 9-11=0/1410, 8-11=-1338/0, 8-12=0/896, 7-12=-886/0, 7-15=0/486, 6-15=-720/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - The Fabrication Tolerance at Joint 14 = 11%
 - 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.
 - CAUTION, Do not erect truss backwards.



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MB-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 ANS/TPH Quality Criteria, DSB-89 and BCB/ Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MITEK Alliance
818 Soundside Road
Edenton, NC 27932

Job BURKE_FL	Truss F3	Truss Type Floor	Qty 5	Ply 1	LGI Homes	E12536147
-----------------	-------------	---------------------	----------	----------	-----------	-----------

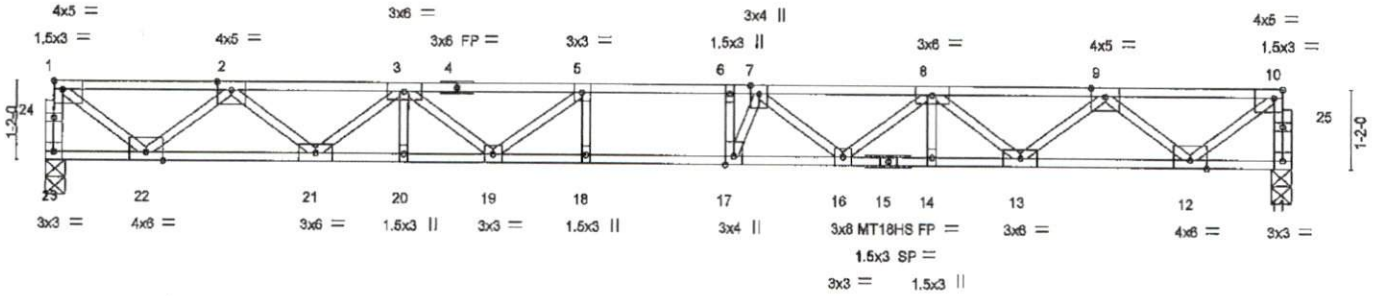
Builders FirstSource, Albemarle, NC 28001

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Dec 18 12:45:24 2018 Page 1
IDr7hMoJzbxPenL_bpb7z5FgypDqB-Faev0820Tsh18lGhgbHfvreXJgXHAOjYKzAkmNy7jww

0-1-8



0-1-8
Scale = 1:31.1



1-6-0	4-0-0	6-7-8	8-0-14	9-0-14	10-0-14	11-9-12	14-5-4	18-11-4	18-5-4
1-6-0	2-6-0	2-7-8	1-5-6	1-0-0	1-0-0	1-7-6	2-7-8	2-6-0	1-6-0

LOADING (psf)		SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.96	Vert(LL)	-0.35	17-18	>633	480
TCDL	10.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.48	17-18	>459	240
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.08	11	n/a	n/a
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH						
									Weight: 94 lb	FT = 20%F, 11%E

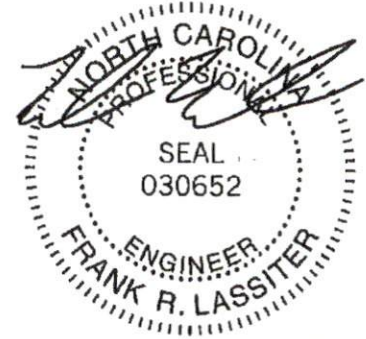
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
11-15: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 1-4-12 cc bracing.

REACTIONS. (lb/size) 23=994/0-3-8, 11=994/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-23=-989/0, 10-11=-989/0, 1-2=-1172/0, 2-3=-2898/0, 3-5=-3958/0, 5-6=-4323/0,
6-7=-4323/0, 7-8=-3961/0, 8-9=-2898/0, 9-10=-1173/0
BOT CHORD 21-22=0/2207, 20-21=0/3596, 19-20=0/3596, 18-19=0/4323, 17-18=0/4323, 16-17=0/4294,
14-16=0/3594, 13-14=0/3594, 12-13=0/2208
WEBS 6-17=-415/210, 1-22=0/1421, 2-22=-1347/0, 2-21=0/900, 3-21=-892/0, 3-19=0/530,
5-19=-699/0, 10-12=0/1421, 9-12=-1348/0, 9-13=0/898, 8-13=-889/0, 8-18=0/489,
7-16=-542/0, 7-17=-362/617

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) The Fabrication Tolerance at Joint 15 = 11%
 - 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.



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2016 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 ANS/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERED BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenon, NC 27632

Job	Truss	Truss Type	Qty	Ply	LGI Homes	E12536148
BURKE_FL	F4E	Floor Supported Gable	1	1		

Builders FirstSource, Albemarle, NC 28001

8.220 s Nov 16 2018 MITEK Industries, Inc. Tue Dec 18 12:45:26 2018 Page 1
 ID:r7hMoJZbxPenl_bpb7z5FgypDqB-jnBH?U20D9pumSrtElouR3Bvl480v72ZdwHlpy7jwu

0-1-B

Scale = 1:26,8

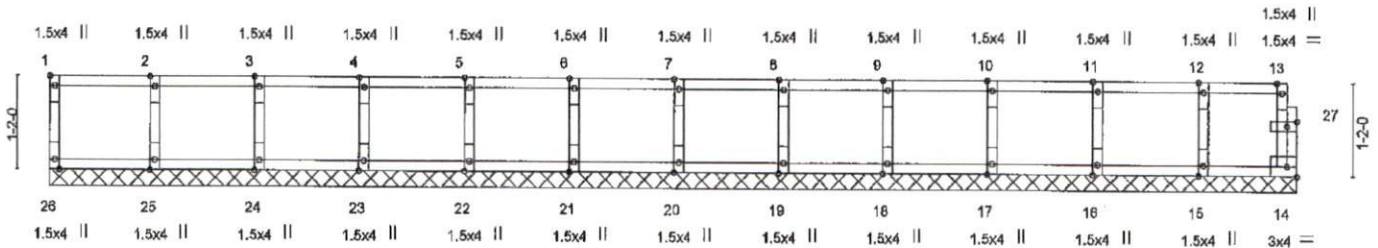


Plate Offsets (X,Y)--		[1.Edge,0-0-12], [27-0-1-8,0-0-12]							
LOADING (psf)	SPACING-	2-0-0	CSI	DEFL.	In (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	14	n/a		
BCDL 5.0	Code	IRC2015/TPI2014	Matrix-R					Weight: 66 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

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.

All bearings 15-10-4.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

FORCES.

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

NOTES-

- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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.
- CAUTION, Do not erect truss backwards.



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2016 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 ANSITPI Quality Criteria, DSR-99 and BCSI Building Component Safety Information available from Truss Plate Institute, 210 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MITEK Alliance

818 Soundside Road
 Edenton, NC 27832

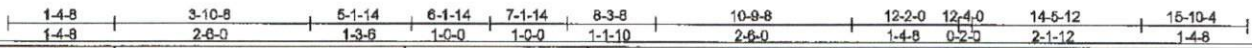
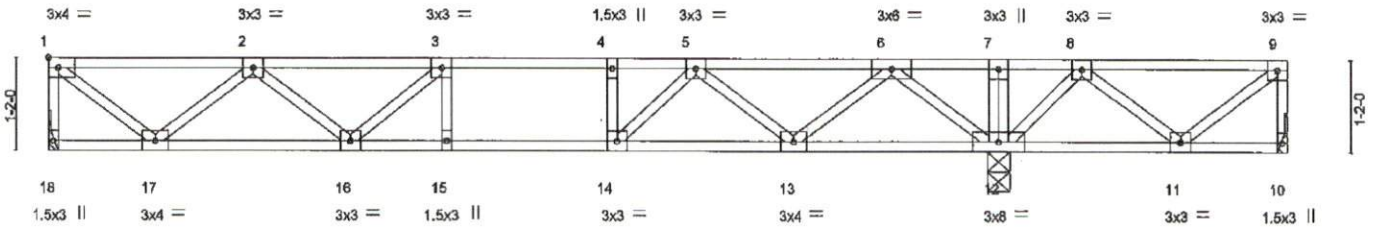
Job BURKE_FL	Truss F5	Truss Type Floor	Qty 2	Ply 1	LGI Homes E12536149
-----------------	-------------	---------------------	----------	----------	------------------------

Builders FirstSource, Albemarle, NC 28001

8.220 s Nov 16 2018 MITek Industries, Inc. Tue Dec 18 12:45:26 2018 Page 1
ID:r?hMoJZbxPenl_bpb7z5FgypDqB-BzlfCq3e_TxINcP3n0J7_GlyHUGzeNzroHggqFy7jw



Scale = 1:28,8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.61	in (loc) l/defl L/d	MT20	244/180
TCDL 10.0	Plate Grip DOL 1.00	BC 0.80	Vert(LL) -0.10 15-16 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.37	Vert(CT) -0.13 15-16 >999 240		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.02 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 80 lb	FT = 20%F, 11%E

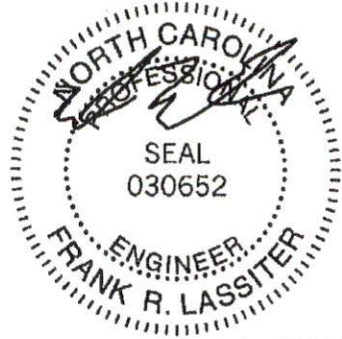
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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. Except: 6-0-0 oc bracing: 12-13,11-12.

REACTIONS. (lb/size) 18=591/Mechanical, 10=46/Mechanical, 12=1185/0-3-8
Max Uplift 10=-186(LC 3)
Max Grav 18=593(LC 3), 10=125(LC 4), 12=1185(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-586/0, 1-2=-613/0, 2-3=-1374/0, 3-4=-1477/0, 4-5=-1477/0, 5-6=-606/0,
6-7=0/992, 7-8=0/992, 8-9=-20/266
BOT CHORD 16-17=0/1180, 15-16=0/1477, 14-15=0/1477, 13-14=0/1149, 11-12=-537/18
WEBS 4-14=-261/0, 1-17=0/783, 2-17=-738/0, 2-16=0/254, 6-12=-1127/0, 6-13=0/700,
5-13=-709/0, 5-14=0/536, 9-11=-340/25, 8-11=0/353, 8-12=-681/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint 10.
 - 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.



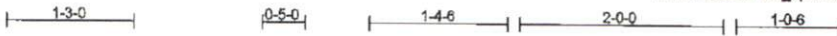
December 18, 2018

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 ANS/ITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 216 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO A MITek Affiliate 818 Soundside Road Edenton, NC 27932</p>
---	--

Job BURKE_FL	Truss F8	Truss Type Floor	Qty 1	Ply 1	LGI Homes	E12536150
-----------------	-------------	---------------------	----------	----------	-----------	-----------

Builders FirstSource, Albemarle, NC 28001

Job Reference (optional)
6.220 s Nov 16 2018 MITek Industries, Inc. Tue Dec 18 12:45:27 2018 Page 1
ID:r7hMoJZbxPenl_bpb7z5FgypDqB-f9J1QA4Gln3c7LFLrMXUG5JIYSNmi71xPOMhy7jws



Scale = 1:20.6

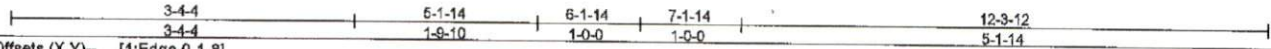
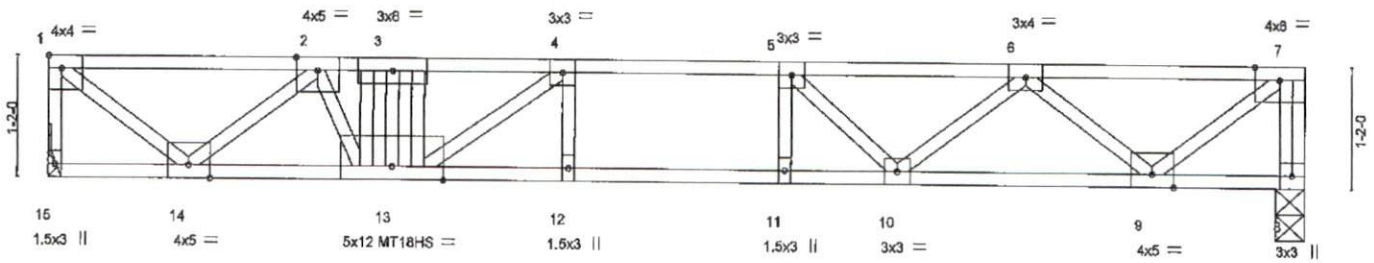


Plate Offsets (X,Y) - [1:Edge,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.97	Vert(LL) -0.15 12-13 >999 480	MT18HS	244/190
BCLL 0.0	Lumber DOL 1.00	WB 0.60	Vert(CT) -0.19 12-13 >762 240		
BCDL 5.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.03 8 n/a n/a		
	Code IRC2015/TP12014			Weight: 68 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 15=896/Mechanical, 8=752/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-15=-886/0, 7-8=-749/0, 1-2=-983/0, 2-3=-2291/0, 3-4=-2283/0, 4-5=-2402/0, 5-6=-1989/0, 6-7=-843/0
 BOT CHORD 13-14=0/1912, 12-13=0/2402, 11-12=0/2402, 10-11=0/2402, 9-10=0/1575
 WEBS 3-13=-441/0, 7-9=0/1058, 6-9=-953/0, 6-10=0/572, 5-10=-698/0, 1-14=0/1255, 2-14=-1209/0, 2-13=0/649, 4-13=-509/145

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 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.
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 315 lb down at 3-4-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 7) 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: 8-15=10, 1-7=100
 Concentrated Loads (lb)
 Vert: 3=315(F)



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 10/02/2015 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 ANSITPH 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	LGI Homes	E12538151
BURKE_FL	F7	Floor	1	1		

Builders FirstSource, Albemarle, NC 28001

8.220 s Nov 18 2018 MITek Industries, Inc. Tue Dec 18 12:45:28 2018 Page 1
 ID:r7hMoJZbxPenl_bpb7z6FgypDqB-8LlQdW5uW4BTdvZSvRMB3hpH7H?86i08Fb9xv8y7jwr



Scale = 1:21.4

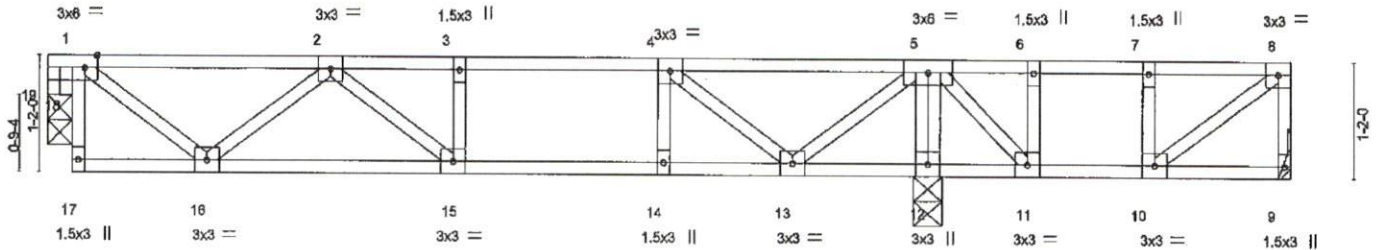


Plate Offsets (X,Y) - [1:0-1-8, Edge], [19:0-0-0, 0-1-10]	8-11-8	12-7-12
	8-11-8	3-8-4

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. In (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.65	Vert(LL) -0.07 15-16	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.56	Vert(CT) -0.09 15-16	>999	240		
BCLL 0.0	Rep Stress Incr YES	WB 0.27	Horz(CT) 0.01 9	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH				Weight: 65 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

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. Except: 6-0-0 oc bracing: 12-13,11-12.

REACTIONS. (lb/size) 9=199/Mechanical, 12=683/0-3-8, 19=468/0-3-0
 Max Grav 9=243(LC 7), 12=683(LC 1), 19=471(LC 10)

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

TOP CHORD 1-2=-532/0, 2-3=-979/0, 3-4=-979/0, 4-5=-516/0
 BOT CHORD 15-16=0/902, 14-15=0/979, 13-14=0/979
 WEBS 5-12=-876/0, 1-16=0/560, 5-13=0/575, 2-16=-482/0, 4-13=-612/0, 8-10=0/311, 5-11=0/259, 1-19=-562/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss connections.
- 3) Bearing at joint(s) 19 considers parallel to grain value using ANSITPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 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.



December 18, 2018

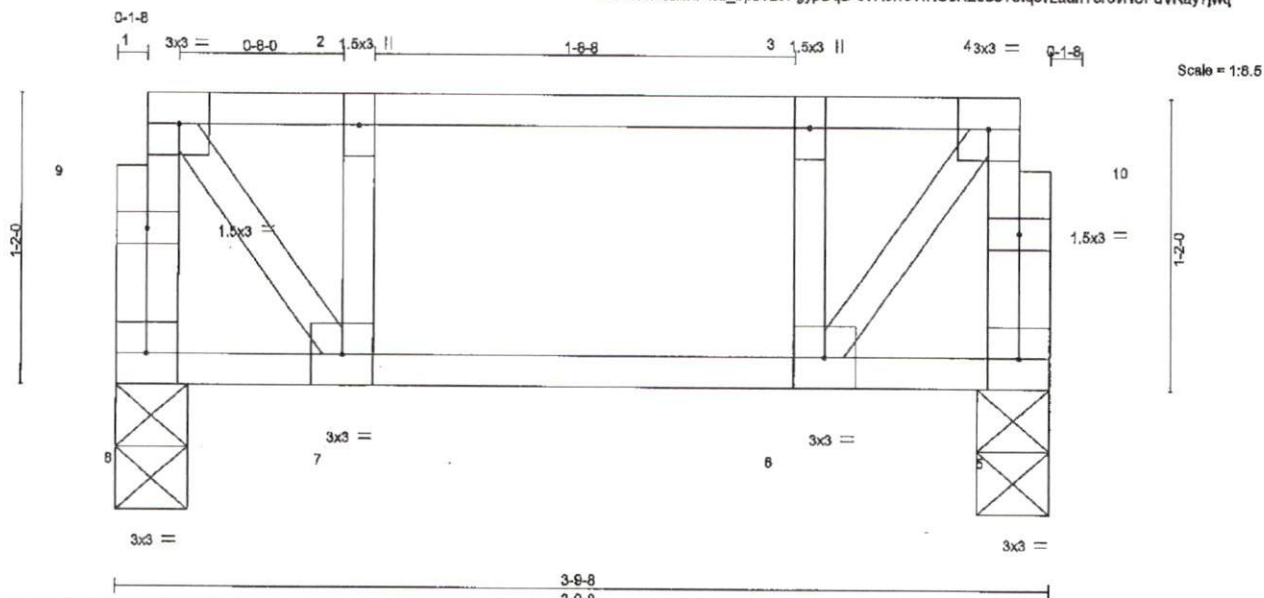
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2016 BEFORE USE.
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MITek Affiliate
 818 Soundside Road
 Edenora, NC 27832

Job	Truss	Truss Type	Qty	Ply	LGI Homes	E12536153
BURKE_FL	F9	Floor	3	1		

Builders FirstSource, Albemarle, NC 28001

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Dec 18 12:45:29 2018 Page 1
ID:r7hMoJZbxPenl_bpb7z5FgypDqB-cYRorr6WH0JKE38eT8tqcLauHT8rovHUFuVRay7jwq



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.13	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.06	Vert(LL) -0.00 6 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.10	Vert(CT) -0.00 7 >999 240		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 22 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=189/0-3-8, 5=189/0-3-8

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

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) 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.



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

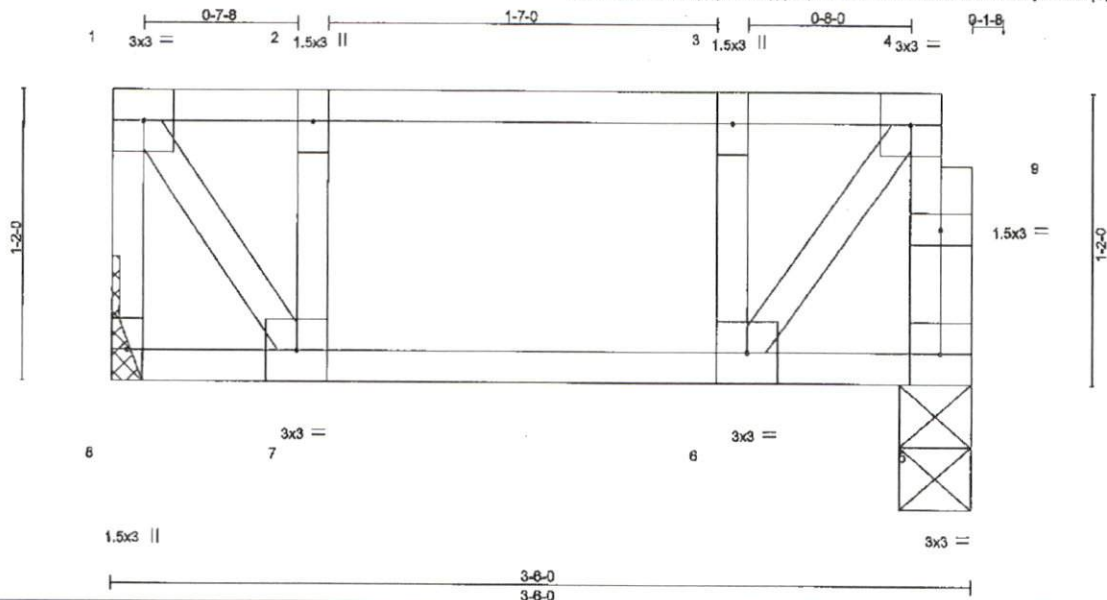
ENGINEERING BY
TRENCO
A MITEK AFFILIATE

818 Soundside Road
Edenton, NC 27832

Job BURKE_FL	Truss F10	Truss Type Floor	Qty 2	Ply 1	LGI Homes	E12536154
-----------------	--------------	---------------------	----------	----------	-----------	-----------

Builders FirstSource, Albemarle, NC 28001

8.220 s Nov 18 2018 MITek Industries, Inc. Tue Dec 18 12:45:18 2018 Page 1
ID:r7hMoJZbxPenL_bpb7z5FgypDqB-QQGeX5zd0xtQNoXJKAFaOjoFIWmqCgy1PZjy7Jx7



Scale = 1:8.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.13	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.07	Vert(LL) -0.00 6 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.10	Vert(CT) -0.00 6 >999 240		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 20 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=182/Mechanical, 6=176/0-3-8

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

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) 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.
- 4) CAUTION, Do not erect truss backwards.



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 ANSVTPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MITek Affiliate

818 Soundside Road
 Eden, NC 27932

Job BURKE_FL	Truss F11	Truss Type Floor	City 4	Ply 1	LGI Homes	E12536165
-----------------	--------------	---------------------	-----------	----------	-----------	-----------

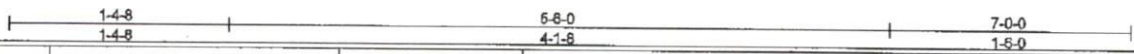
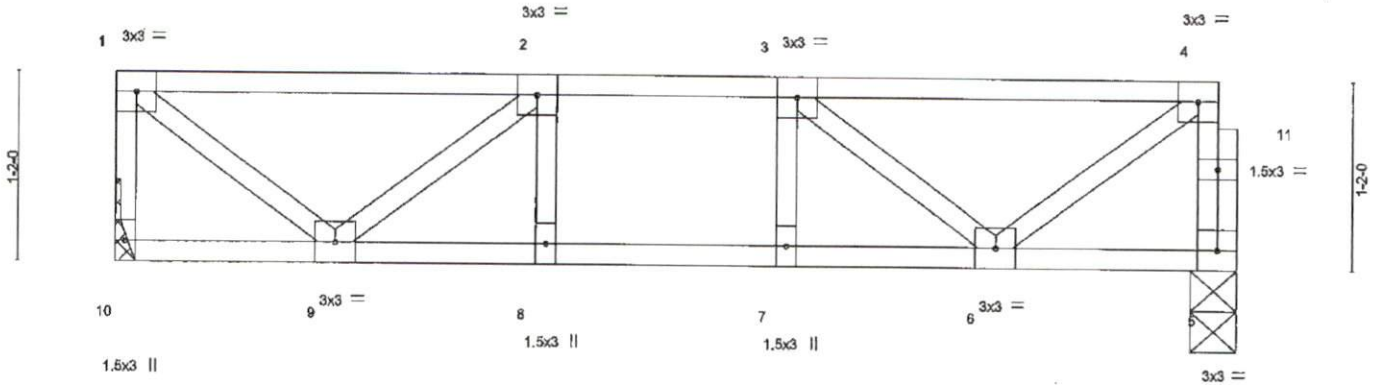
Builders FirstSource, Albemarle, NC 28001

Job Reference (optional)
8.220 s Nov 16 2018 MITek Industries, Inc. Tue Dec 18 12:45:19 2018 Page 1
ID:r7hMoJzbxPenI_bpb7z6FgypDqB-udq0kR_FeJ3k2XNjI2hUCoxoNf_8VFzpBhTz59y7jX_



Q-1-P

Scale = 1:13.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.46	In (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.36	Vert(LL) -0.03 6-7 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.20	Vert(CT) -0.03 6-7 >999 240		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 36 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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. (lb/size) 10=375/Mechanical, 5=368/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-368/0, 4-5=-363/0, 1-2=-324/0, 2-3=-632/0, 3-4=-338/0
BOT CHORD 8-9=0/632, 7-8=0/632, 6-7=0/632
WEBS 4-6=0/404, 1-9=0/414, 3-6=-376/0, 2-9=-393/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - 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.
 - CAUTION, Do not erect truss backwards.



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-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 ANS/TPI1 Quality Criteria, DSB-85 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



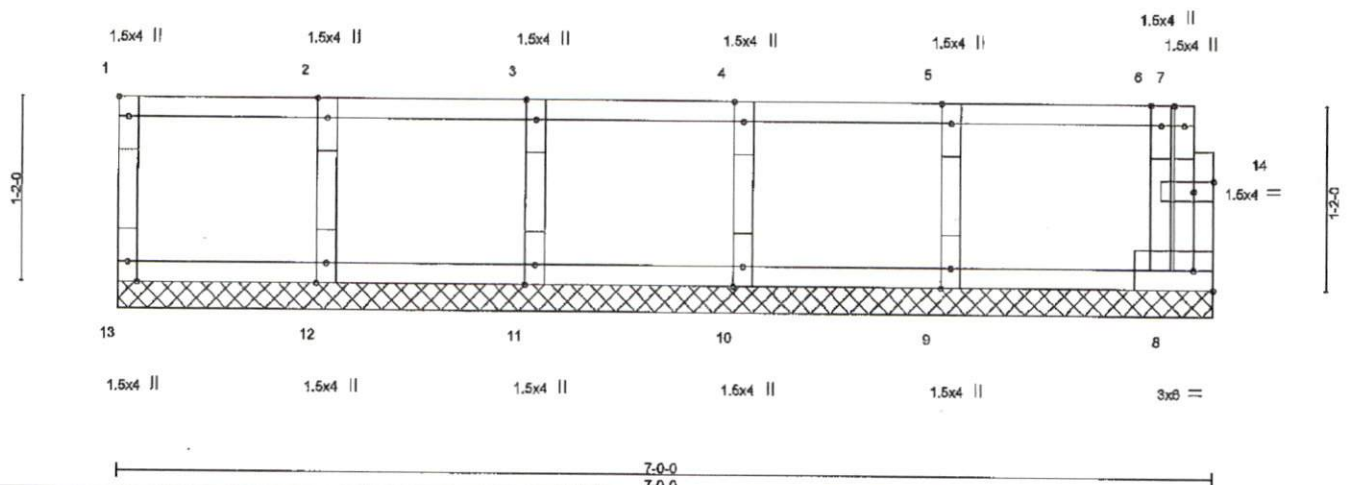
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	LGI Homes	E12638168
BURKE_FL	F12E	Floor Supported Gable	1	1		
Builders FirstSource, Albemarle, NC 28601						Job Reference (optional)

8.220 s Oct 6 2018 MITek Industries, Inc. Tue Dec 18 14:49:05 2018 Page 1
 ID:r7hMoJZbxPenI_bpb7z5FgypDqB-7MZHIP9RKVXwyY4GAJ0GVzvTcIOOXs8AckGHty7j08

0-1-8

Scale = 1:13.5



LOADING (psf)		SPACING-		CSI.	DEFL.	in (loc)	V/def	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	n/a	-	n/a	999
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	n/a	-	n/a	999
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a
BCDL	5.0	Code IRC2015/TPI2014		Matrix-R						
Weight: 31 lb										FT = 20%F, 11%E

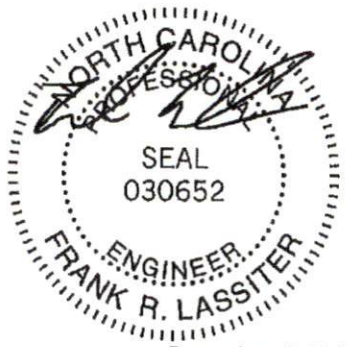
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 8-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		

REACTIONS. (lb/size) 13=68/7-0-0, 8=78/7-0-0, 12=143/7-0-0, 11=149/7-0-0, 10=143/7-0-0, 9=161/7-0-0

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-13=-59/0, 8-14=0/19, 7-14=0/19, 1-2=-14/0, 2-3=-14/0, 3-4=-14/0, 4-5=-14/0, 5-6=-14/0, 6-7=-2/0
 BOT CHORD 12-13=0/14, 11-12=0/14, 10-11=0/14, 9-10=0/14, 8-9=0/14
 WEBS 2-12=-134/0, 3-11=-134/0, 4-10=-131/0, 5-9=-143/0, 6-8=-93/0

- NOTES-
- 1) Gable requires continuous bottom chord bearing.
 - 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 3) Gable studs spaced at 1-4-0 oc.
 - 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANS/TP1.
 - 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.

LOAD CASE(S) Standard



December 18, 2018

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE ME-7473 rev. 10/03/2018 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 ANS/TP1 Quality Criteria, DSB-86 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO <small>A Mitek Affiliate</small> 818 Soundside Road Edenton, NC 27832</p>
---	--

Job BURKE_FL	Truss F13E	Truss Type Floor Supported Gable	Qty 1	Ply 1	LGI Homes	E12536157
-----------------	---------------	-------------------------------------	----------	----------	-----------	-----------

Builders FirstSource, Albemarle, NC 28001

8.220 s Nov 16 2018 Mitek Industries, Inc. Tue Dec 18 12:45:20 2018 Page 1
ID:r7hMoJZbxPenl_bpb7z5FgypDqB-NpOoym?IPdBbthvRIDjk7T313PnEkpzQLCWdby7jwz

0.1-8

Scale = 1:17.3

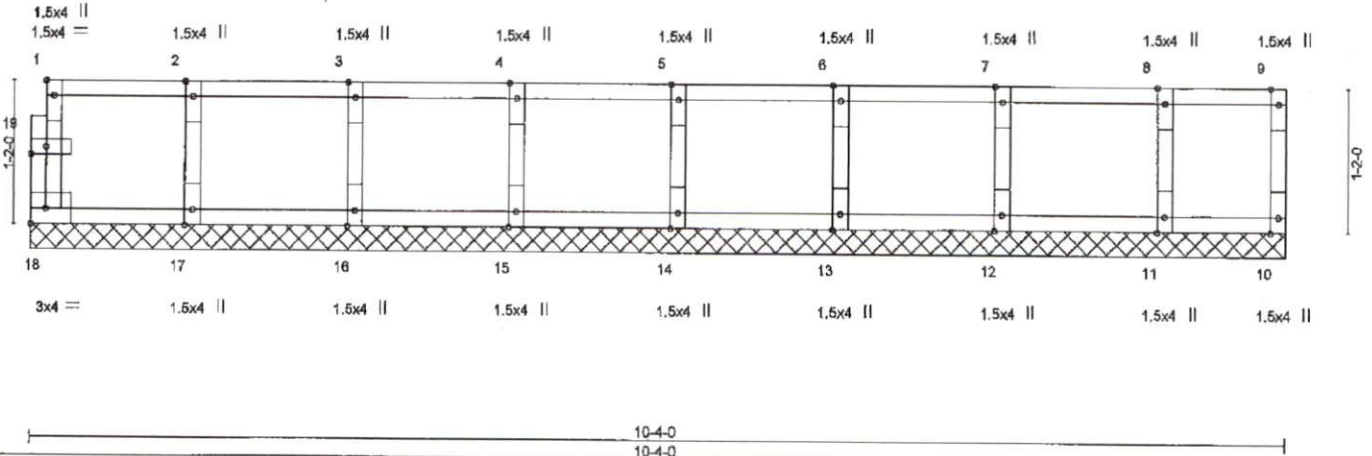


Plate Offsets (X,Y)-- [1:Edge 0-0-12], [19:0-1-8,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.08	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.02	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 44 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

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. All bearings 10-4-0.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

- NOTES-**
- Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - 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.
 - CAUTION, Do not erect truss backwards.



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 10/03/2016 BEFORE USE.
 Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCB Building Component Safety Information available from Truss Plate Institute, 216 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A Mitek Affiliate
 818 Soundside Road
 Edenton, NC 27832

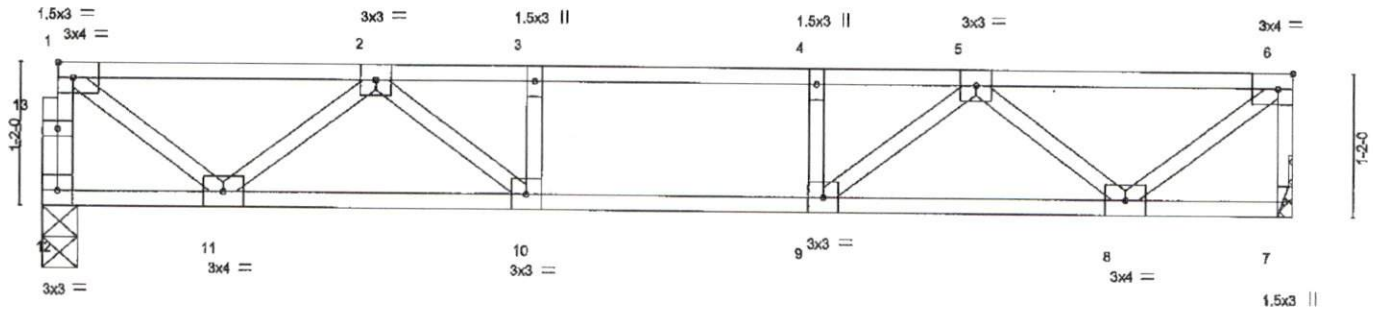
Job	Truss	Truss Type	Qty	Ply	LGI Homes	E12536158
BURKE_FL	F14	Floor	1	1		

Builders FirstSource, Albemarle, NC 28001

8.220 s Nov 16 2018 MITek Industries, Inc. Tue Dec 18 12:45:21 2018 Page 1
 ID:r?hMoJZbxPeri_bpb7z5FgypDqB-r7ym967VAxJSHqX8?SkyHD08CTdoz8E6e?y392y7jwy



Scale = 1:17.4



1-6-0	1-6-0	8-11-8	10-4-0
Plate Offsets (X,Y) - [6:0-1-8,Edge]		7-5-8	1-4-8

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.43	in (loc) I/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.48	Vert(LL) -0.07 10-11 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.34	Vert(CT) -0.08 10-11 >999 240		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.01 7 n/a n/a		
	Code IRC2015/TPI2014			Weight: 51 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)

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. (lb/size) 12=552/0-3-8, 7=558/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-12=-548/0, 8-7=-553/0, 1-2=-687/0, 2-3=-1314/0, 3-4=-1314/0, 4-5=-1314/0, 5-6=-551/0
 BOT CHORD 10-11=0/1087, 9-10=0/1314, 8-9=0/1071
 WEBS 6-8=0/716, 1-11=0/707, 5-8=-664/0, 2-11=-651/0, 5-9=0/463, 2-10=0/449

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) 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.
 - 4) CAUTION, Do not erect truss backwards.



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 ANSITPH Quality Criteria, DSB-88 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

TRENCO
 ENGINEERING BY
 A Mitek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job BURKE_FL	Truss F15	Truss Type Floor	Qty 9	Ply 1	LGI Homes	E12536159
-----------------	--------------	---------------------	----------	----------	-----------	-----------

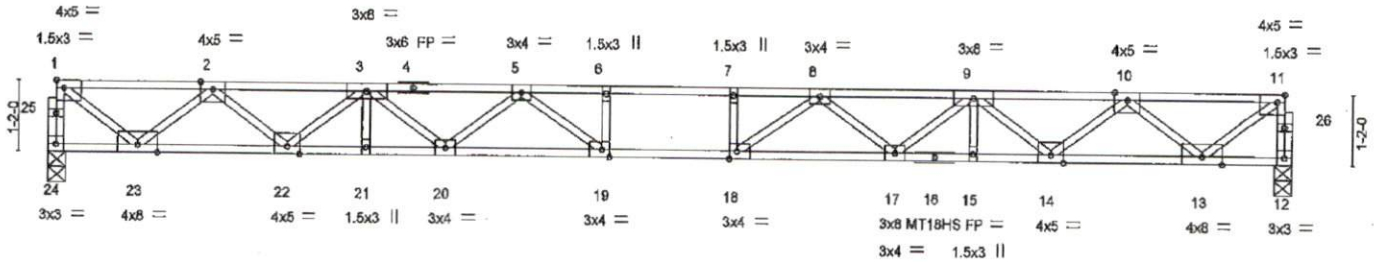
Builders FirstSource, Albemarle, NC 28001

8.220 s Nov 16 2018 MITek Industries, Inc. Tue Dec 18 12:45:22 2018 Page 1
ID:r?hMoJzbxPenL_bpb7z5FgypDqB-JCW8NS07xERJv_6IYAFBqQZDU3iSfJfthdhUy7jwv

0-1-8



0-1-8
Scale = 1:35.1



1-6-0	4-0-0	6-7-8	9-3-0	9-4-8	10-4-8	11-5-0	14-1-8	16-9-0	18-3-0	20-9-0
1-6-0	2-6-0	2-7-8	2-7-8	0-1-8	1-0-0	1-0-0	2-7-8	2-7-8	2-6-0	1-6-0

LOADING (psf)		SPACING-		CSI		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	In (loc)	l/defl	L/d	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.80	Vert(LL)	-0.47 18-19	>521	480	480	
BCLL	0.0	Rep Stress Incr	YES	WB	0.77	Vert(CT)	-0.65 18-19	>379	240	240	
BCDL	5.0	Code IRC2015/TP12014		Matrix-SH		Horz(CT)	0.09 12	n/a	n/a		
										Weight: 104 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat) *Except* 4-11: 2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP 2400F 2.0E(flat) *Except* 12-16: 2x4 SP No.1(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		

REACTIONS. (lb/size) 24=1121/0-3-8, 12=1121/0-3-8

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

TOP CHORD	1-24=-1115/0, 11-12=-1116/0, 1-2=-1339/0, 2-3=-3367/0, 3-5=-4751/0, 5-6=-5490/0, 6-7=-5490/0, 7-8=-5490/0, 8-9=-4752/0, 9-10=-3369/0, 10-11=-1339/0
BOT CHORD	22-23=0/2526, 21-22=0/4226, 20-21=0/4226, 19-20=0/5225, 18-19=0/5490, 17-18=0/5226, 15-17=0/4225, 14-15=0/4225, 13-14=0/2526
WEBS	6-19=-296/0, 7-18=-296/0, 1-23=0/1624, 2-23=-1544/0, 2-22=0/1095, 3-22=-1097/0, 3-20=0/870, 5-20=-618/0, 5-19=-1517/49, 11-13=0/1624, 10-13=-1545/0, 10-14=0/1097, 9-14=-1092/0, 9-17=0/673, 8-17=-817/0, 8-18=-1527/48

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - 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.



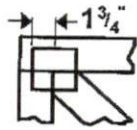
December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MR-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 ANSITPH Quality Criteria, DSB-88 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

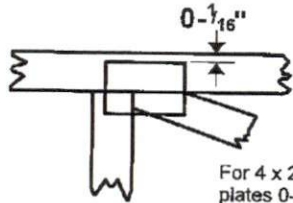
ENGINEERING BY
TRENCO
A Mittek Affiliate
816 Soundside Road
Edenon, NC 27832

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 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

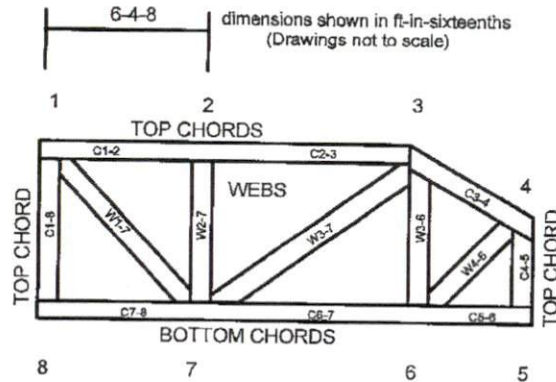


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

- ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
 DSB-89: Design Standard for Bracing.
 BCSI: 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.

© 2012 MITek® All Rights Reserved



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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: Burke_RF
LGI Homes

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource (Albermarle,NC).

Pages or sheets covered by this seal: E12536174 thru E12536189

My license renewal date for the state of North Carolina is December 31, 2018.

North Carolina COA: C-0844



December 18, 2018

Lassiter, Frank

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	LGI Homes	E12536174
BURKE_RF	A1E	Common Supported Gable	1	1		

Builders FirstSource, Albemarle, NC 28001
 8.220 s Nov 16 2018 Mitek Industries, Inc. Tue Dec 18 12:52:33 2018 Page 1
 ID:r7hMoJZbxPenl_bpb7z5FgypDqB-4DJ09JpSb2rdojv62jwJpv2ScBJBZbl_DbxK7y7jqC
 34-8-0 36-8-0 1-0-0

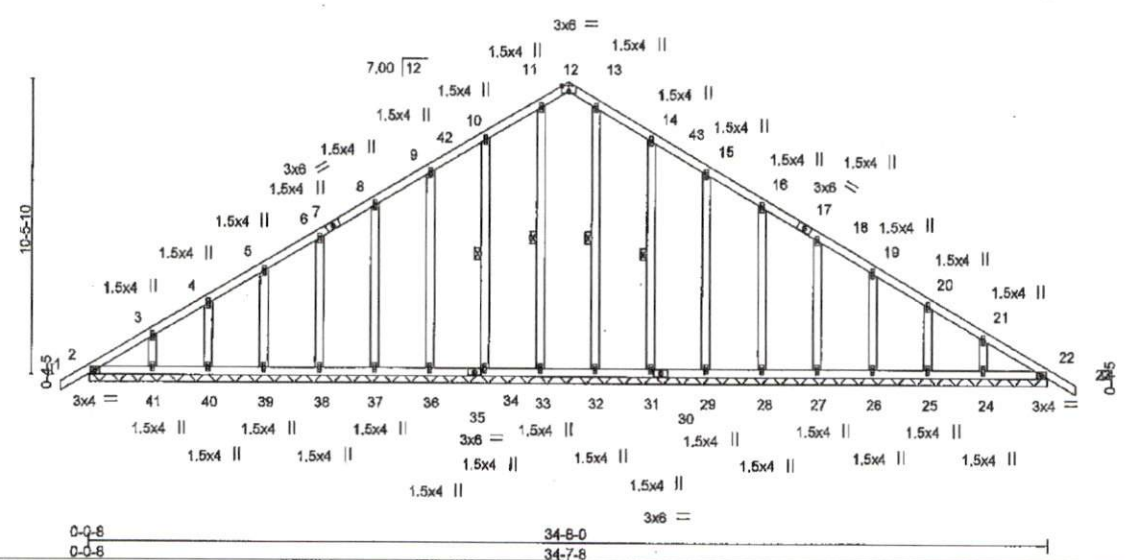


Plate Offsets (X,Y) - [12-0-3-0 Edge] 34-7-8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) -0.00 22 n/r 120		
TCDL 10.0	Lumber DOL 1.15	WB 0.12	Vert(CT) -0.00 22 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.01 22 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 240 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid coiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 11-33, 10-34, 13-32, 14-31

REACTIONS. All bearings 34-7-0.
 (lb) - Max Horz 2--207(LC 14)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 34, 36, 37, 38, 39, 40, 41, 31, 29, 28, 27, 26, 25, 24
 Max Grav All reactions 250 lb or less at joint(s) 2, 33, 34, 36, 37, 38, 39, 40, 41, 32, 31, 29, 28, 27, 26, 25, 24, 22

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 17-4-0, Corner(3) 17-4-0 to 20-4-0, Exterior(2) 20-4-0 to 35-8-0 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 8-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at j(s) 2, 34, 36, 37, 38, 39, 40, 41, 31, 29, 28, 27, 26, 25, and 24. This connection is for uplift only and does not consider lateral forces.
 - Non Standard bearing condition. Review required.

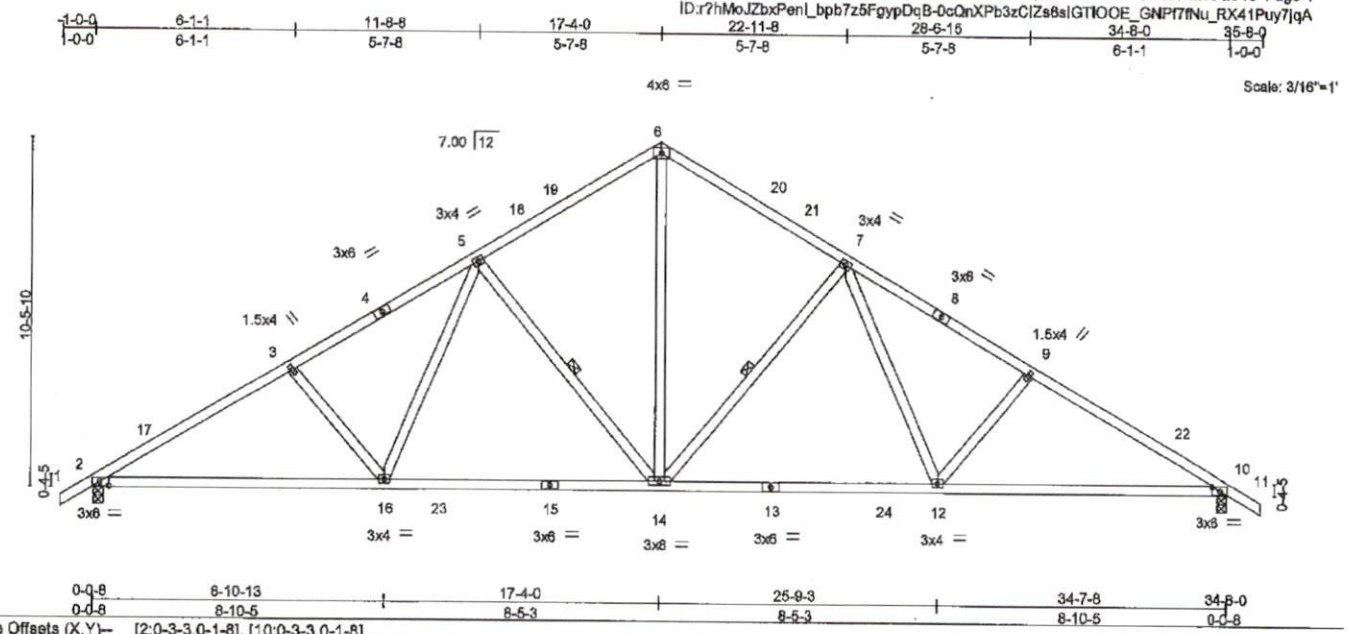


December 18, 2018

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/09/2015 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 ANSUTPI Quality Criteria, DSB-89 and BCS Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO A Mitek Alliance 816 Soundside Road Edenton, NC 27832</p>
---	--

Job BURKE_RF	Truss A2	Truss Type Common	Qty 3	Ply 1	LGI Homes	E12536175
Builders FirstSource, Albemarle, NC 28001		Job Reference (optional)				

8,220 s Nov 16 2018 MTEK Industries, Inc. Tue Dec 18 12:52:35 2018 Page 1
 ID:r?hMoJZbxPenL_bpb7z5FgypDqB-DcQnXPb3zClZs8slGTIOE_GNP17INu_RX41PuyJqA



LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15		TC 0.58	Vert(LL) -0.19	14-16	>999	240	MT20	244/190
Snow (Pl/Pg) 15.4/20.0	Lumber DOL 1.15		BC 0.87	Vert(CT) -0.35	14-16	>999	180		
TGDL 10.0	Rep Stress Incr YES		WB 0.45	Horz(CT) 0.10	10	n/a	n/a		
BCLL 0.0	Code IRC2015/TPI2014		Matrix-SH						
BCDL 10.0								Weight: 189 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-2-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 7-14, 5-14

REACTIONS. (lb/size) 2=1275/0-3-8, 10=1275/0-3-8
 Max Horz 2=207(LC 14)
 Max Uplift 2=48(LC 16), 10=48(LC 17)
 Max Grav 2=1444(LC 2), 10=1444(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2286/75, 3-5=-2090/88, 5-6=-1456/121, 6-7=-1456/121, 7-9=-2090/89, 9-10=-2286/75
 BOT CHORD 2-16=-120/2039, 14-16=-29/1655, 12-14=0/1553, 10-12=0/1908
 WEBS 6-14=-33/1114, 7-14=-635/156, 7-12=-5/520, 9-12=-297/141, 5-14=-635/156, 5-16=-5/520, 3-16=-297/140

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf, h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 17-4-0, Exterior(2) 17-4-0 to 20-4-0, Interior(1) 20-4-0 to 35-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - This truss has been designed for a live load of 20.0psf 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at J(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MR-7473 rev. 10/03/2018 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 ANS/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

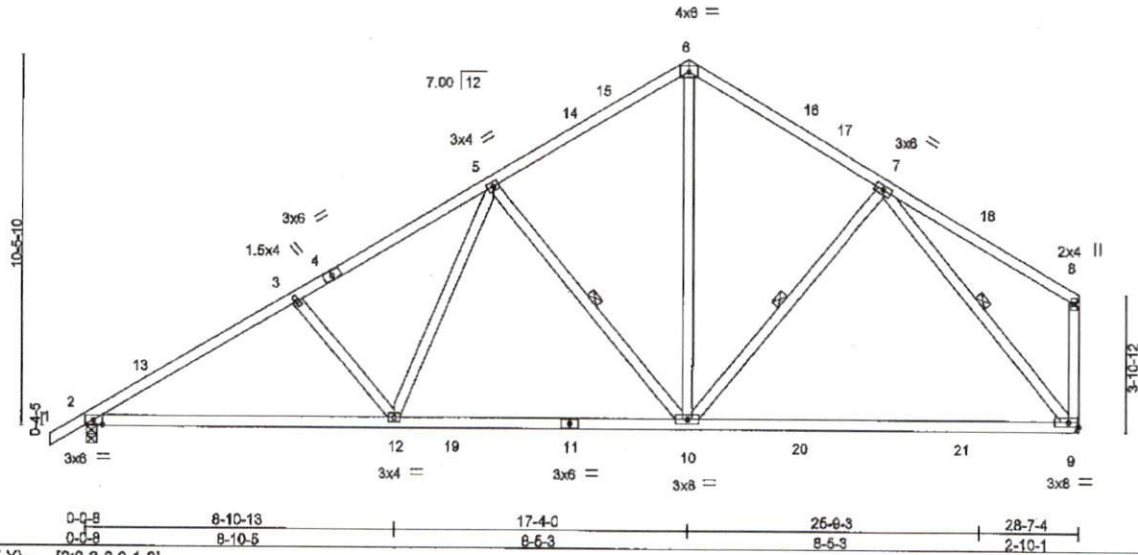
ENGINEERING BY
TRENCO
 A MITEK Affiliate
 818 Soundside Road
 Eden, NC 27832

Job BURKE_RF	Truss A3	Truss Type Common	Qty 5	Ply 1	LGI Homes	E12536176
-----------------	-------------	----------------------	----------	----------	-----------	-----------

Builders FirstSource, Albemarle, NC 28001

8.220 a Nov 16 2018 Mitek Industries, Inc. Tue Dec 18 12:52:36 2018 Page 1

1-0-0 6-1-1 11-8-8 17-4-0 22-11-8 28-6-16 28-7-4
 1-0-0 6-1-1 6-7-8 5-7-8 5-7-8 5-7-8 0-0-5



Scale = 1:60.5

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	in (oc)	l/defl	L/d	MT20	244/190	
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.91	Vert(LL)	-0.46	9-10	>742	240	
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Vert(CT)	-0.84	9-10	>407	180	
BCLL	0.0	Code	IRC2015/TPI2014	Matrix-SH		Horz(CT)	0.05	9	n/a	n/a	
BCDL	10.0									Weight: 169 lb FT = 20%	

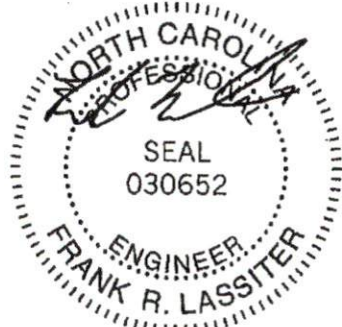
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 9-11: 2x4 SP No.1
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-8-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-2-13 oc bracing.
 WEBS 1 Row at midpt 7-10, 5-10, 7-9

REACTIONS. (lb/size) 2=1062/0-3-8, 9=1001/Mechanical
 Max Horz 2=210(LC 16)
 Max Uplift 2=48(LC 16), 9=4(LC 17)
 Max Grav 2=1203(LC 2), 9=1162(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=1829/79, 3-5=1647/92, 5-6=1013/104, 6-7=1036/109
 BOT CHORD 2-12=182/1835, 10-12=98/1253, 9-10=21/748
 WEBS 5-10=620/163, 6-10=25/693, 7-9=1104/53, 5-12=15/495, 3-12=305/139

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vu=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 17-4-0, Exterior(2) 17-4-0 to 20-4-0, Interior(1) 20-4-0 to 28-5-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - 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 20.0psf 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 BCCL = 10.0psf.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
 - 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at j(s) 2. This connection is for uplift only and does not consider lateral forces.



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-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/TPI1 Quality Criteria, D9B-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 216 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A Mitek Affiliate
 818 Southside Road
 Edenton, NC 27932

Job BURKE_RF	Truss A3A	Truss Type Common	Qty 5	Ply 1	LGI Homes	E12538177
-----------------	--------------	----------------------	----------	----------	-----------	-----------

Builders FirstSource, Albemarle, NC 28001

8.220 a Nov 16 2018 MITek Industries, Inc. Tue Dec 18 12:52:38 2018 Page 1
ID:r7hMoJZbxPenl_bpb7z5FgypDqB-R8Bv9RdyG7g8jabbxb150scoldg7sbNR7UJh7Dy7j97



Scale = 1.65.0

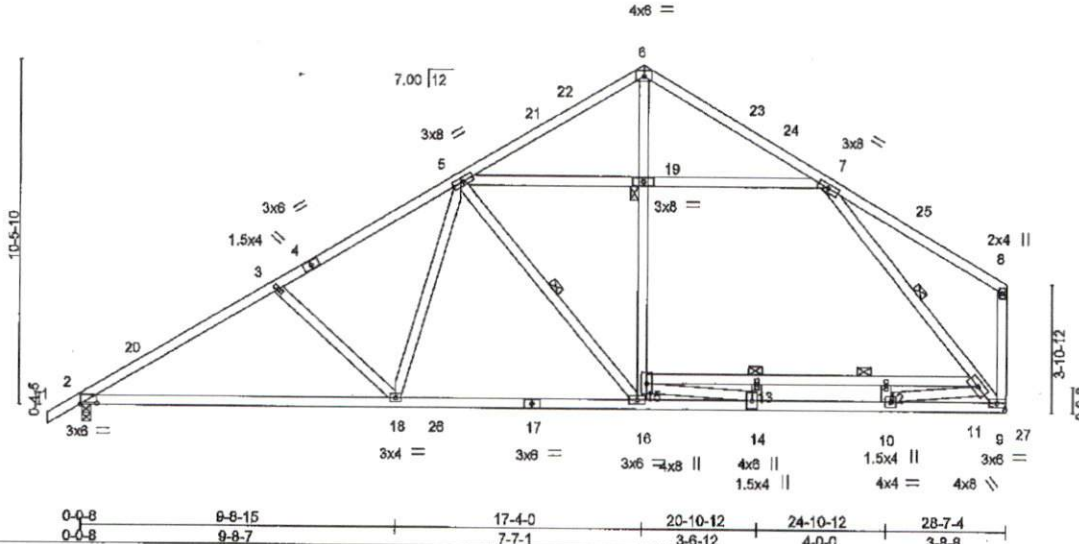


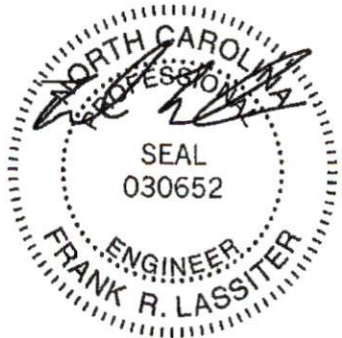
Plate Offsets (X,Y) - [2-0-6-0-0-0-6]		CSL		DEFL		PLATES	GRIP
LOADING (psf)	SPACING-	TC	in	in	l/defl	MT20	244/190
TCLL (roof) 20.0	2-0-0	0.54	2-18	>999	240		
Snow (P/Pg) 15.4/20.0	Plate Grip DOL 1.15	0.93	2-18	>732	180		
TCDL 10.0	Lumber DOL 1.15	0.98	9	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-SH				Weight: 199 lb	FT = 20%
BCDL 10.0	Code IRC2015/TPI2014						

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-5-15 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 2-2-0 oc bracing: 2-18, 4-5-0 oc bracing: 11-15
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-16, 7-9
	JOINTS 1 Brace at Jt(s): 19

REACTIONS. (lb/size) 2=1104/0-3-8, 9=1161/Mechanical
 Max Horz 2=210(LC 16)
 Max Uplift 2=23(LC 16)
 Max Grav 2=1323(LC 30), 9=1538(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2058/34, 3-5=-1838/29, 5-6=-1722/0, 6-7=-1756/0
 BOT CHORD 2-18=-154/1832, 16-18=-54/1474, 14-16=-17/662, 10-14=0/2185, 9-10=0/1397,
 13-15=-1522/0, 12-13=-1522/0, 11-12=-1522/0
 WEBS 3-18=-314/141, 5-18=0/485, 5-16=-885/85, 15-16=0/1005, 15-19=0/1419, 6-19=0/1412,
 7-19=-2/617, 5-19=0/642, 7-11=-1392/0, 9-11=-1929/0, 14-15=0/1784, 10-11=0/1067

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 17-4-0, Exterior(2) 17-4-0 to 20-4-0, Interior(1) 20-4-0 to 28-5-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 paf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf 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.
 - Refer to girder(s) for truss to truss connections.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at Jt(s) 2. This connection is for uplift only and does not consider lateral forces.



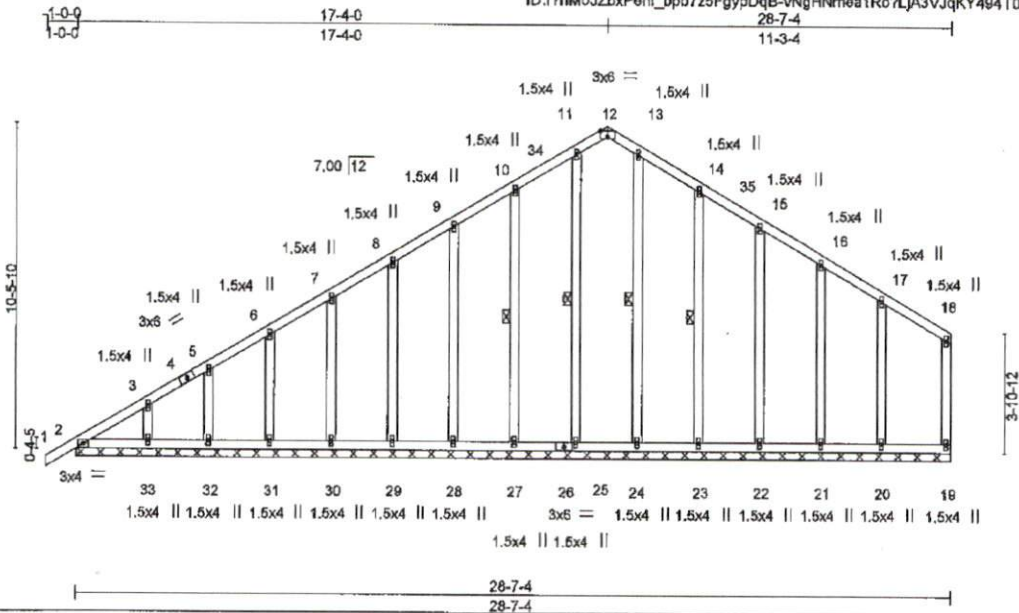
December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MITEK Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job BURKE_RF	Truss A4E	Truss Type GABLE	Qty 1	Ply 1	LGI Homes	E12536178
Builders FirstSource, Albemarle, NC 28001		Job Reference (optional)				

8.220 a Nov 16 2018 MITek Industries, Inc. Tue Dec 18 12:52:39 2018 Page 1
 ID:r7hMoJzbxPenl_bpb7z5FgypDqB-vNgHNmea1Ro7LJA3VJqKY494T0E8bG4aM62FY7jq6



Scale = 1:68.8

Plate Offsets (X,Y) - [12;0-3-0,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.13	in (loc) l/defl L/d	MT20	244/190
Snow (PI/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) -0.00 1 n/r 120		
TCDL 10.0	Lumber DOL 1.15	WB 0.12	Vert(CT) 0.00 1 n/r 120		
BCLL 0.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 19 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 214 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.3

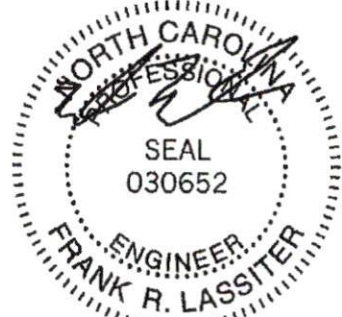
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purfins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 11-25, 10-27, 13-24, 14-23

REACTIONS. All bearings 28-7-4.
 (lb) - Max Horz 2=210(LC 16)
 Max Uplift All uplift 100 lb or less at Joint(s) 19, 2, 25, 27, 28, 29, 30, 31, 32, 33, 23, 22, 21, 20
 Max Grav All reactions 250 lb or less at Joint(s) 19, 2, 25, 27, 28, 29, 30, 31, 32, 33, 24, 23, 22, 21, 20

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 17-4-0, Corner(3) 17-4-0 to 20-4-0, Exterior(2) 20-4-0 to 28-5-8 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at J(s) 19, 2, 25, 27, 28, 29, 30, 31, 32, 33, 23, 22, 21, and 20. This connection is for uplift only and does not consider lateral forces.



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 ANSITPI Quality Criteria, D55-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MITek Affiliates
 618 Soundale Road
 Edenon, NC 27832

Job BURKE_RF	Truss B1E	Truss Type Common Supported Gable	Qty 1	Ply 1	LGI Homes	E12536179
-----------------	--------------	--------------------------------------	----------	----------	-----------	-----------

Builders FirstSource, Albemarle, NC 28001

8.220 s Nov 16 2018 Mitek Industries, Inc. Tue Dec 18 12:52:41 2018 Page 1
ID:r?hMoJZbxPenl_bpb7z6FgypDqB-rmnznStqZ23je1KSKsdodVEQuqvW3B3tqSXMcy7Jq4

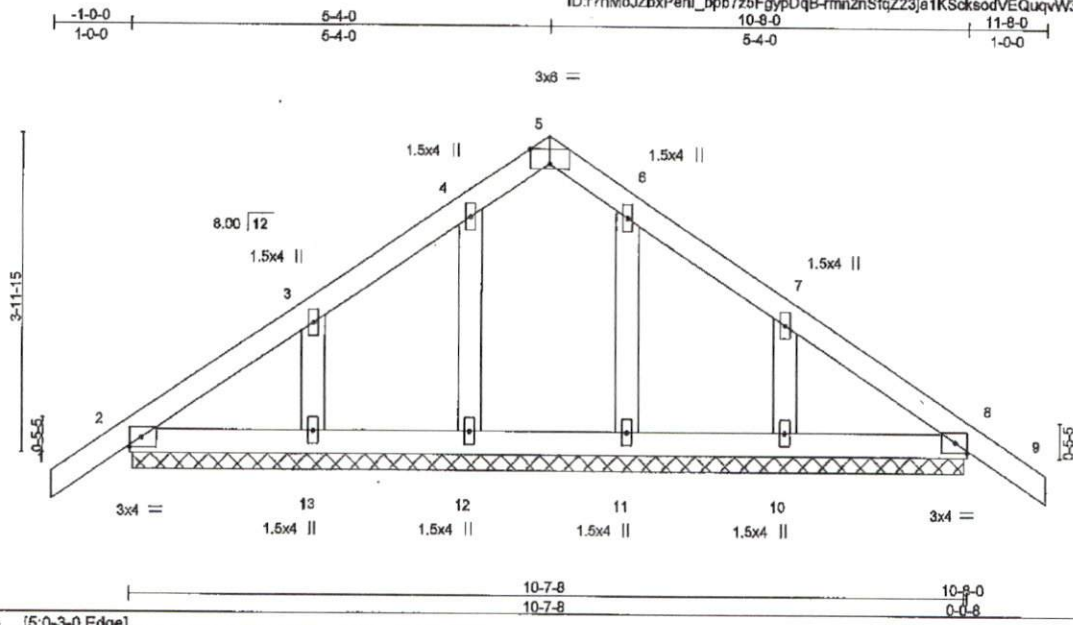


Plate Offsets (X,Y)-- [5:0-3-0.Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.07	In (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) -0.00 9 n/r 120		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Vert(CT) -0.00 9 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 52 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 10-7-0.
(lb) - Max Horz 2=-82(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 12, 13, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 11, 10

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 5-4-0, Corner(3) 5-4-0 to 8-4-0, Exterior(2) 8-4-0 to 11-8-0 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - TCLL: ASCE 7-10; P=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at J(s) 12, 13, 11, and 10. This connection is for uplift only and does not consider lateral forces.
 - Non Standard bearing condition. Review required.



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 216 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A Mitek Affiliate
818 Soundside Road
Edenton, NC 27932

Job BURKE_RF	Truss B2	Truss Type Common	Qty 1	Ply 1	LGI Homes	E12538180
-----------------	-------------	----------------------	----------	----------	-----------	-----------

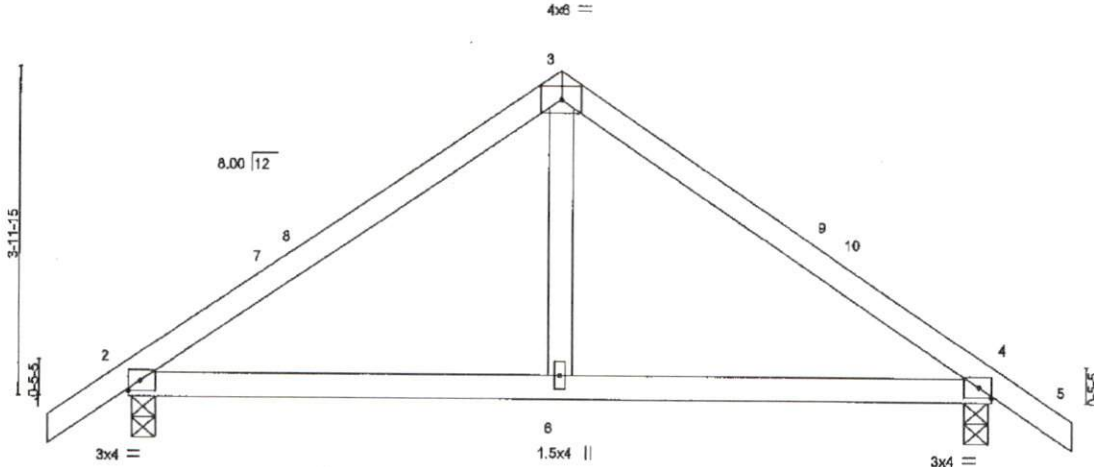
Builders FirstSource, Albemarle, NC 28001

8.220 s Nov 16 2018 MITek Industries, Inc. Tue Dec 18 12:52:42 2018 Page 1

ID:r?hMoJZbxPen_bpb7z5FgypDqB-JyLQ?ogSKMBAcBveARN1AinUVEBbodB026Hv8_y7Jq3



Scale = 1:26.0



LOADING (psf)	SPACING-	CSL	DEFL.	In (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.53	Vert(LL) -0.02	2-6	>999	240	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.31	Vert(CT) -0.04	2-6	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.10	Horz(CT) 0.01	4	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2015/TP12014						Weight: 44 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

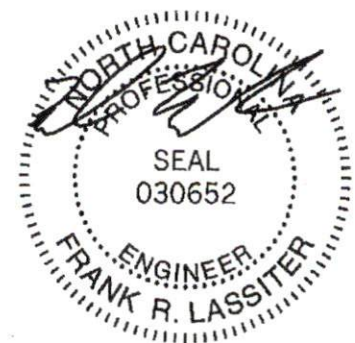
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=425/0-3-8, 4=425/0-3-8
 Max Horz 2=82(LC 13)
 Max Uplift 2=24(LC 14), 4=24(LC 15)
 Max Grav 2=484(LC 2), 4=484(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-461/20, 3-4=-461/20
 BOT CHORD 2-6=0/299, 4-6=0/299
 WEBS 3-6=0/257

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-4-0, Exterior(2) 5-4-0 to 8-4-0, Interior(1) 8-4-0 to 11-8-0 zone, cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2018 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 ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 216 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MITek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	LGI Homes	E12536181
BURKE_RF	B3E	Common Structural Gable	1	1		

Builders FirstSource, Albemarle, NC 28001

8.220 s Nov 18 2018 MITek Industries, Inc. Tue Dec 18 12:52:43 2018 Page 1
 ID:r7hMoJZbxPenl_bpb7z5FgypDqB-n9voC8h45fJQqLUqk8uGjwKireVQXxgAHm0ShQy7jq2



Scale = 1/48.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP.
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.06	2-12	>999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.13	2-12	>999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.01	6	n/a		
BCLL	0.0	Code IRC2015/TPI2014		Matrix-SH						Weight: 144 lb	FT = 20%
BCDL	10.0										

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

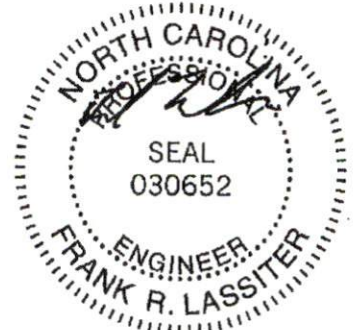
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 10-5-8 except (l=length) 2=0-3-8.
 (lb) - Max Horz 2=147(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 6
 Max Grav All reactions 250 lb or less at joint(s) 11, 8, 6 except 2=577(LC 2), 10=806(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=629/43, 3-4=493/100
 BOT CHORD 2-12=52/511
 WEBS 4-10=553/48, 5-10=302/155, 4-12=69/465, 3-12=294/150

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-5-0, Exterior(2) 10-5-0 to 13-5-0, Interior(1) 13-5-0 to 21-10-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at J(s) 2, 10, and 6. This connection is for uplift only and does not consider lateral forces.



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MITEK Affiliate

818 Soundside Road
 Edenton, NC 27832

Job	Truss	Truss Type	Qty	Ply	LGI Homes	E12536182
BURKE_RF	B4	Scissor	3	1		

Builders FirstSource, Albemarle, NC 28001

Job Reference (optional)
 8.220 s Nov 18 2018 MTEK Industries, Inc. Tue Dec 18 12:52:44 2018 Page 1
 ID:r7hMoJZbxPenl_bpb7z5FgypDqB-GLTAQUhiszRHRV21HsPVF7slc1aGQ3JWQm0Dsy7jq1

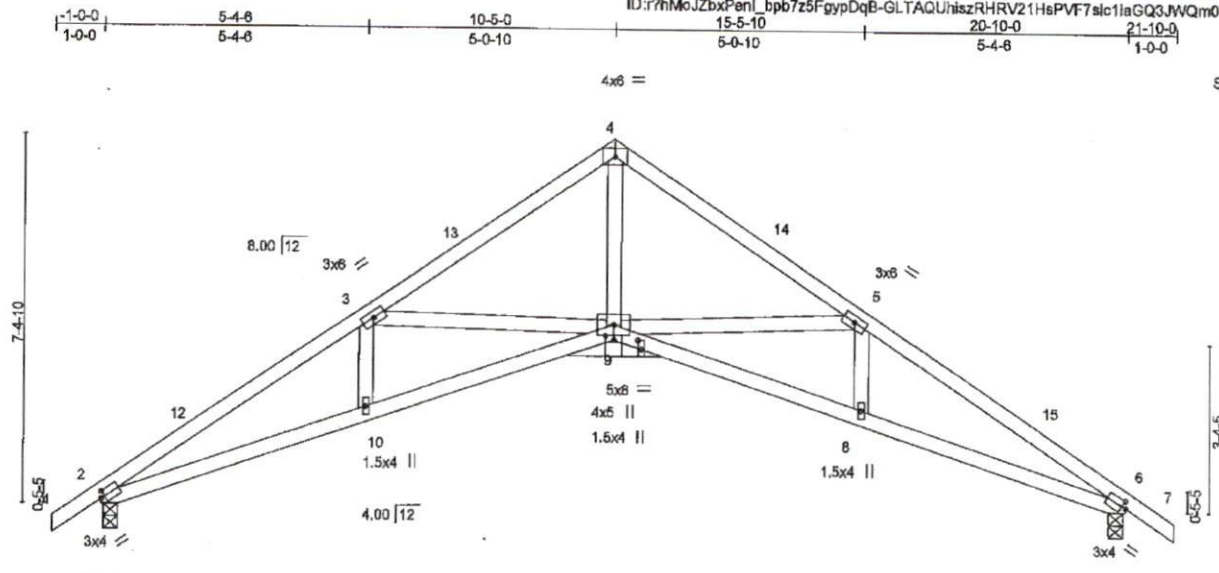


Plate Offsets (X,Y)	[2:0-1-0-0-1-8], [6:0-1-0-0-1-8], [9:0-1-0-0-2-0], [11:0-2-4-0-0-12]
---------------------	--

LOADING (psf)	SPACING-	CSI,	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.87	in (loc) l/defl L/d	MT20	244/190
Snow (P/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.98	Vert(LL) -0.11 9 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.52	Vert(CT) -0.22 8-9 >999 180		
BCLL 0.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.21 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 102 lb	FT = 20%

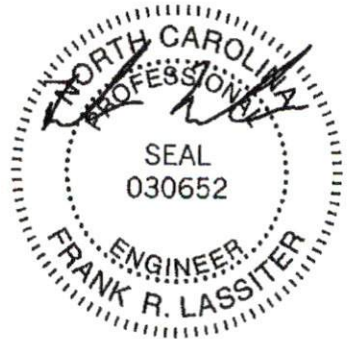
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-1 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=785/0-3-8, 6=785/0-3-8
 Max Horz 2=-147(LC 12)
 Max Uplift 2=-31(LC 14), 6=-31(LC 15)
 Max Grav 2=890(LC 2), 6=890(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2118/71, 3-4=-1479/11, 4-5=-1479/31, 5-6=-2116/0
 BOT CHORD 2-10=91/1761, 9-10=90/1756, 8-9=0/1754, 6-8=0/1759
 WEBS 3-9=528/165, 4-9=0/1262, 5-9=535/174

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-5-0, Exterior(2) 10-5-0 to 13-5-0, Interior(1) 13-5-0 to 21-10-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2016 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 ANSITPI Quality Criteria, DSB-89 and BCBJ Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

TRENCO
 ENGINEERING BY
 A MITEK Affiliate
 816 Soundside Road
 Edenton, NC 27932

Job BURKE_RF	Truss B5	Truss Type Scissor	Qty 3	Ply 1	LGI Homes	E12538183
-----------------	-------------	-----------------------	----------	----------	-----------	-----------

Builders FirstSource, Albemarle, NC 28001
 8,220 s Nov 16 2018 Mitek Industries, Inc. Tue Dec 18 12:52:45 2018 Page 1
 ID:r7hMoJZbxPenL_bpb7z5FgypDqB-kX1ZdqLdHZ83edDrZwkoLPzBR8g7iTk4VZJy7jq0

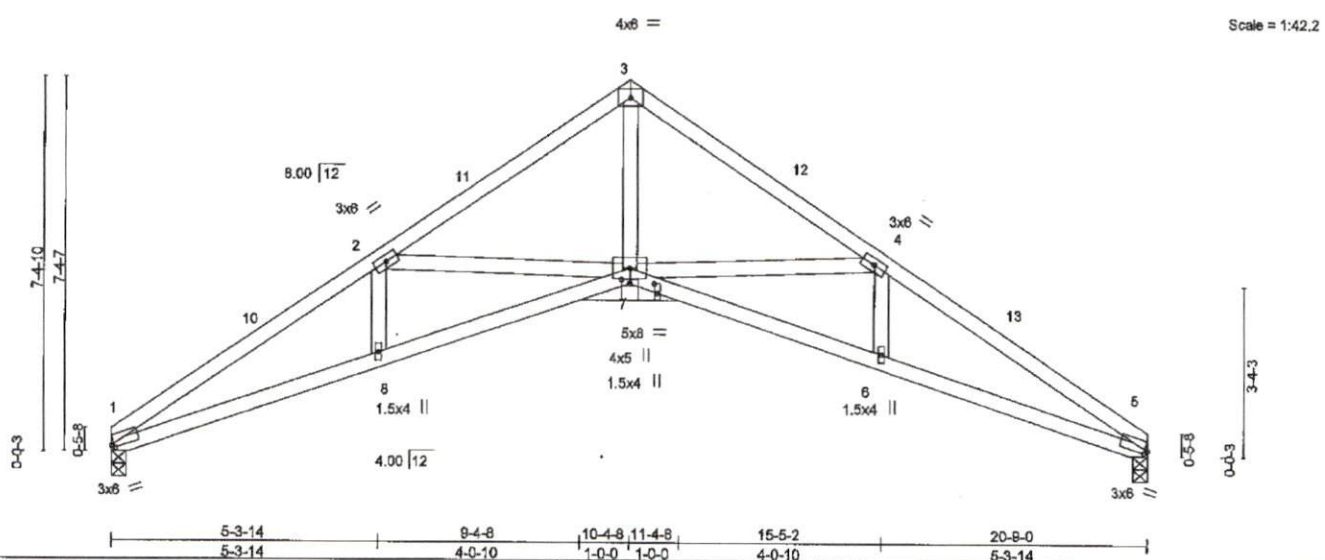


Plate Offsets (X,Y) - [1:0-0-12,0-0-12], [5:0-0-12,0-0-12], [7:0-1-0-0-2], [9:0-2-4,0-0-12]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.66	in (loc) l/defl L/d	MT20	244/190
Snow (PWPg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.81	Vert(LL) -0.11 7 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.52	Vert(CT) -0.22 6-7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.21 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 98 lb	FT = 20%

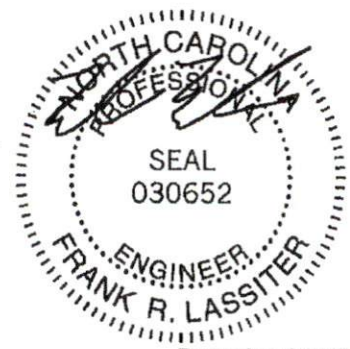
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-6-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=724/0-3-8, 5=724/0-3-8
 Max Horz 1=-138(LC 12)
 Max Uplift 1=-14(LC 14), 5=-14(LC 16)
 Max Grav 1=818(LC 2), 5=818(LC 2)

FORGES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2124/84, 2-3=-1481/20, 3-4=-1481/40, 4-5=-2124/17
 BOT CHORD 1-8=-110/1767, 7-8=-109/1761, 6-7=0/1761, 5-6=0/1767
 WEBS 2-7=-535/168, 3-7=0/1264, 4-7=-540/177

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-2-4 to 3-2-4, Interior(1) 3-2-4 to 10-5-0, Exterior(2) 10-5-0 to 13-5-0, Interior(1) 13-5-0 to 20-7-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf 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.
 - Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/31/2016 BEFORE USE.
 Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, D6B-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A Mitek Alliance
 818 Soundside Road
 Edenton, NC 27932

Job BURKE_RF	Truss B5A	Truss Type Roof Special	Qty 1	Ply 1	LGI Homes	E12536184
-----------------	--------------	----------------------------	----------	----------	-----------	-----------

Builders FirstSource, Albemarle, NC 28001

8.220 s Nov 18 2018 MITek Industries, Inc. Tue Dec 18 12:52:46 2018 Page 1
ID:r?hMoJZbxPenI_bpb7z5FgypDqB-CjbxrAjzOah?noCPPHSzKYy7UrU_kLrczKF7Hly7jq?

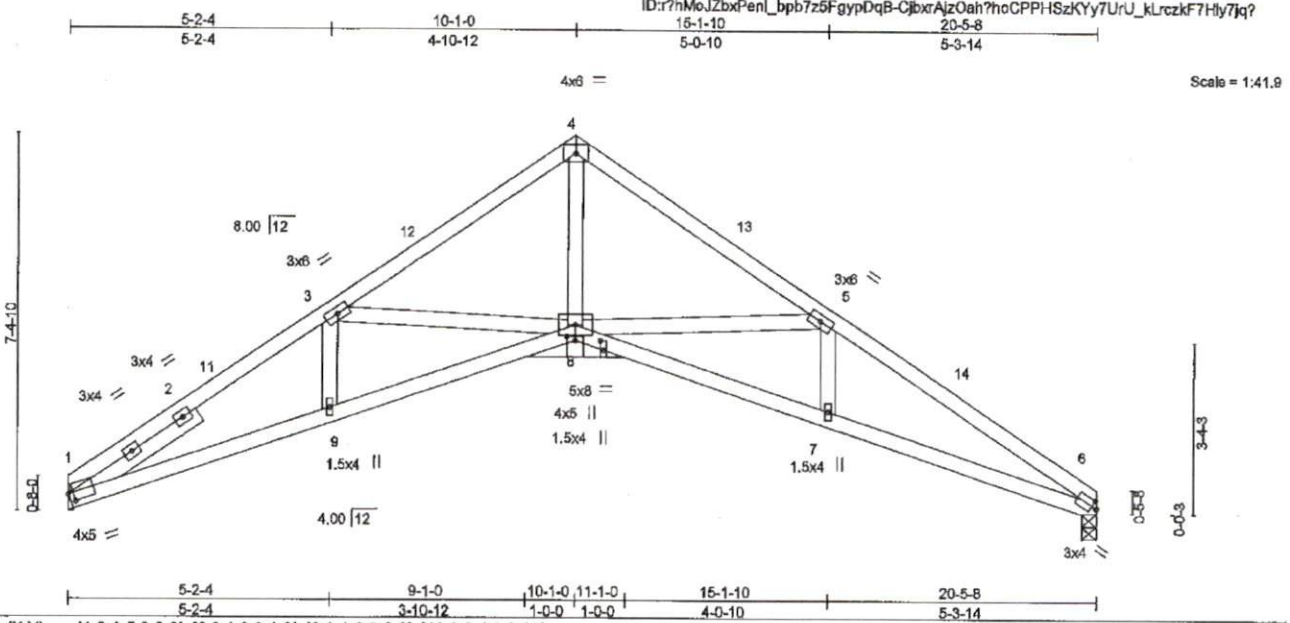


Plate Offsets (X,Y) - [1:0-1-5-0-2-0], [6:0-1-3-0-1-8], [8:0-1-0-0-2-0], [10:0-2-4-0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.65	in (loc) l/defl L/d	MT20	244/190
Snow (P/I/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.60	Vert(LL) -0.10 8 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.60	Vert(CT) -0.21 8-9 >999 180		
BCLL 0.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.19 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 101 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-4 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 0-3-0	

REACTIONS. (lb/size) 1=716/Mechanical, 6=716/0-3-8
 Max Horz 1=137(LC 10)
 Max Uplift 1=13(LC 14), 6=15(LC 15)
 Max Grav 1=809(LC 2), 6=809(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-1966/77, 3-4=-1440/19, 4-5=-1452/39, 5-6=-2093/17
 BOT CHORD 1-9=-96/1609, 8-9=-96/1617, 7-8=0/1734, 6-7=0/1740
 WEBS 3-8=-434/158, 4-8=0/1217, 5-8=-538/177

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-2 to 3-1-2, Interior(1) 3-1-2 to 10-1-0, Exterior(2) 10-1-0 to 13-1-0, Interior(1) 13-1-0 to 20-3-12 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.80 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Cl=1.10
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf 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.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 6 considers parallel to grain value using ANSITPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at Jt(s) 6. This connection is for uplift only and does not consider lateral forces.



December 18, 2018

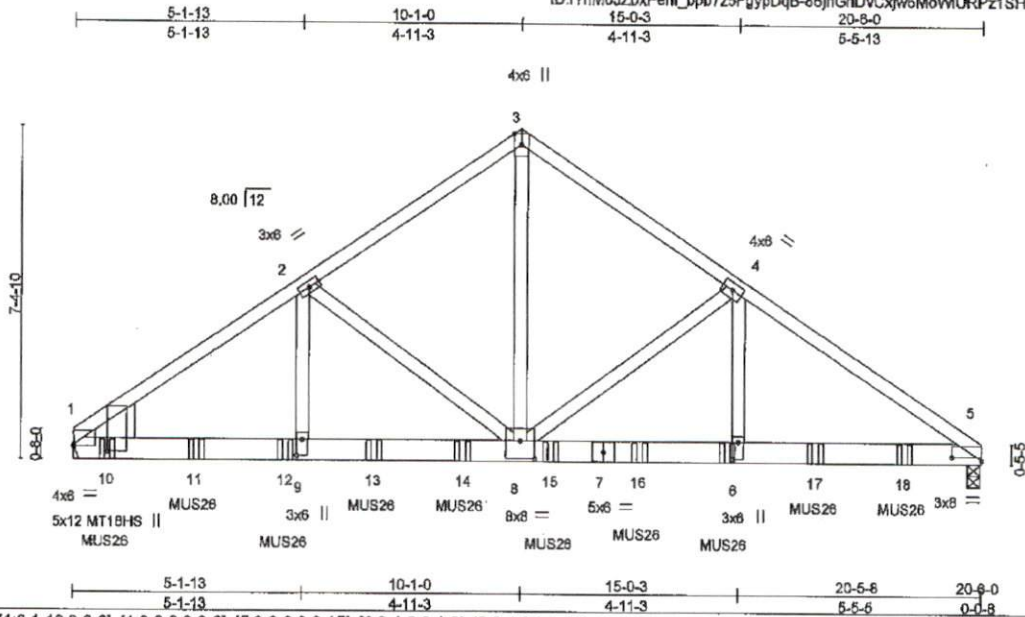
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MW-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANSITPI Quality Criteria, DBS-83 and BCS Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MITek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job BURKE_RF	Truss B6G	Truss Type COMMON GIRDER	Qty 1	Ply 3	LGI Homes	E12538185
-----------------	--------------	-----------------------------	----------	----------	-----------	-----------

Builders FirstSource, Albemarle, NC 28001

8.220 s Nov 16 2018 MITek Industries, Inc. Tue Dec 18 12:52:48 2018 Page 1
ID:r?hMoJZbxPenl_bpb7z5FgypDqB-88jhGdDvCxjw6MoWlURPz1SHfAeC7hvRzKdLdy7jz



Scale = 1:47.5

Plate Offsets (X,Y)--	[1:0-1-12 0-9-8], [1:0-0-0 0-0-6], [5:0-8-0 0-0-15], [6:0-4-8 0-1-8], [8:0-4-0 0-4-12], [9:0-4-4 0-1-8]
-----------------------	---

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.76	In (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.52	Vert(LL) -0.09 6-8 >999 240	MT18HS	244/190
TCDL 10.0	Lumber DOL 1.15	WB 0.99	Vert(CT) -0.17 6-8 >999 180		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.04 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 380 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.3
WEDGE
Left: 2x10 SP No.2

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

REACTIONS. (lb/size) 5=8007/(0-3-8 + LGT3-SDS2.5 Simpson Strong-Tie) (req. 0-3-15), 1=6045/Mechanical
Max Horz 1=135(LC 29)
Max Grav 5=7481(LC 3), 1=7087(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=9487/0, 2-3=6769/0, 3-4=6771/0, 4-5=10629/0
BOT CHORD 1-8=0/7649, 8-9=0/7649, 6-8=0/8717, 5-6=0/8717
WEBS 3-8=0/7197, 4-8=-3935/0, 4-6=0/4350, 2-8=-2673/254, 2-9=-66/3094

NOTES-

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone, cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 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.
- Refer to girder(s) for truss to truss connections.
- LGT3-SDS2.5 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at J(s) 5. This connection is for uplift only and does not consider lateral forces.
- Use Simpson Strong-Tie MUS26 (6-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-9-4 from the left end to 8-9-4 to connect truss(es) to back face of bottom chord.
- Use Simpson Strong-Tie MUS26 (6-10d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 10-9-4 from the left end to 18-9-4 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- LGT3 Hurricane ties must have three studs in line below the truss.

Continued on page 2

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MS-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 ANSITPM Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



December 18, 2018

ENGINEERING BY
TRENCO
A MITek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	LGI Homes	E12536185
BURKE_RF	B6G	COMMON GIRDER	1	3		

Builders FirstSource, Albemarle, NC 28001

6.220 s Nov 16 2018 Mitek Industries, Inc. Tue Dec 18 12:52:48 2018 Page 2
 ID:r7hMoJZbxPenL_bpb7z6FgypDqB-86jhGfDvCxw6MoWlURPz1SHfAeC7hvR2kDLdy7jz

LOAD CASE(S) Standard

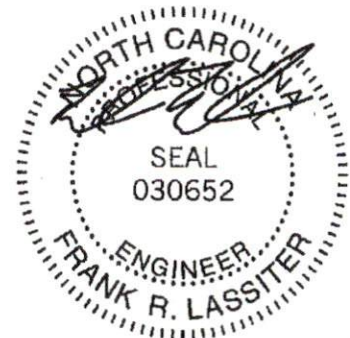
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-51, 3-5=-51, 1-5=-20

Concentrated Loads (lb)

Vert: 6=-1141(B) 10=-984(B) 11=-981(B) 12=-981(B) 13=-981(B) 14=-981(B) 15=-1141(B) 16=-1141(B) 17=-1141(B) 18=-1141(B)



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2016 BEFORE USE.

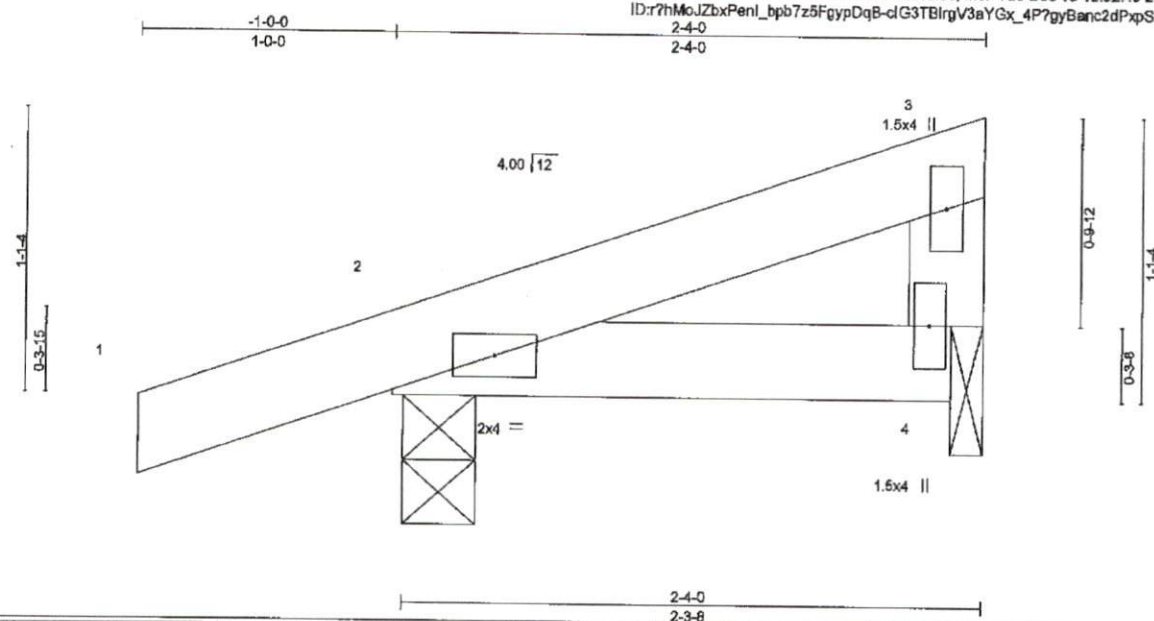
Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



218 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	LGI Homes	E12536186
BURKE_RF	G1	Monopitch	6	1		

Builders FirstSource, Albemarle, NC 28001
 Job Reference (optional)
 8.220 s Nov 16 2018 MITek Industries, Inc. Tue Dec 18 12:52:49 2018 Page 1
 ID:r7hMoJZbxPenl_bpb7z5FgypDqB-clG3TBlrgV3aYGx_4P7gyBanc2dPxpS2fTnt4y7jpy



Scale = 1:8.3

LOADING (psf)	SPACING-	CSI.	DEFL	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
Snow (Pl/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) -0.00 2-4 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 2-4 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 9 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

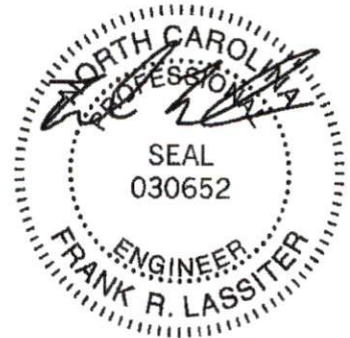
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=56/0-1-8, 2=147/0-3-8
 Max Horz 2=35(LC 12)
 Max Uplift 4=8(LC 16), 2=45(LC 12)
 Max Grav 4=62(LC 2), 2=170(LC 2)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 9) One H2.6A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 2. This connection is for uplift only and does not consider lateral forces.



December 18, 2018

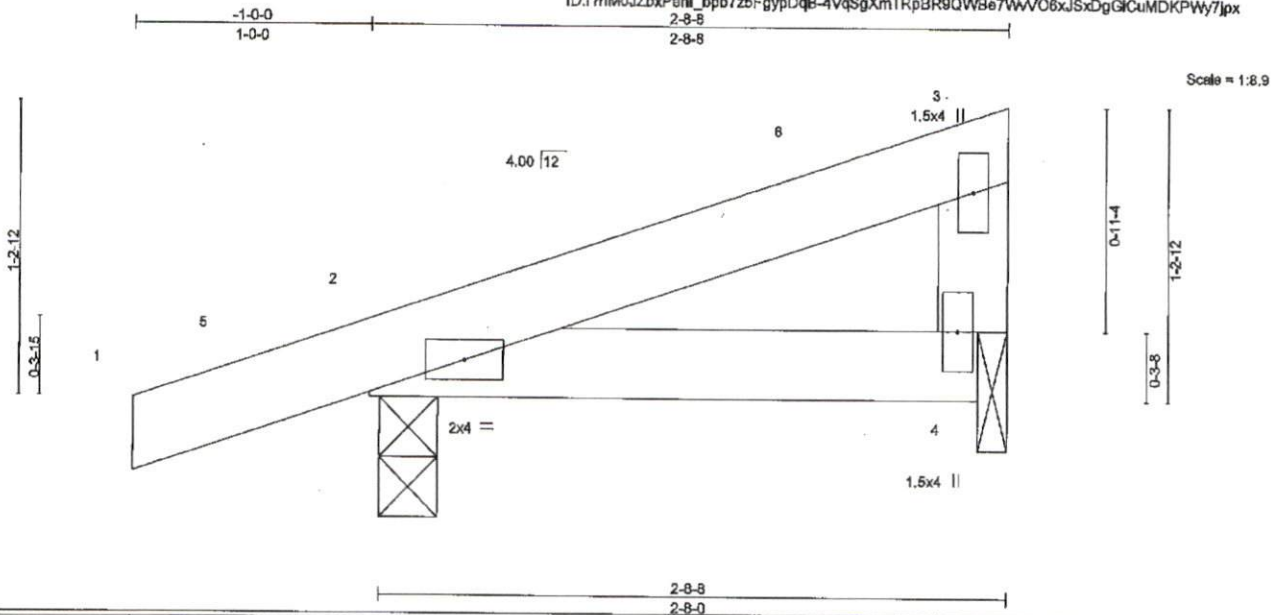
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 10/03/2016 BEFORE USE.
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	LGI Homes	E12536187
BURKE_RF	P1	Monopitch Supported Gable	4	1		

Builders FirstSource, Albemarle, NC 28001

8.220 s Nov 16 2018 MITek Industries, Inc. Tue Dec 18 12:52:50 2018 Page 1
 ID:r7hMoJZbxPant_lbp7z6FgypDqB-4VqSgXmTRpBR9QW8e7WwV06xJSxDgGkCuMDKPWY7jpx



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.20	Vert(LL) -0.00 2-4 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 2-4 >999 160		
BCLL 0.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 11 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-8-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=157/0-3-0, 4=73/0-1-8
 Max Horz 2=39(LC 12)
 Max Uplift 2=43(LC 12), 4=8(LC 16)
 Max Grav 2=181(LC 2), 4=82(LC 2)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=81mph; TCDL=6.0psf; BCDL=6.0psf, h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 2-6-12 zone; cantilever left and right 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) TCLL: ASCE 7-10; Pf=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at J(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-743 rev. 10/03/2016 BEFORE USE.

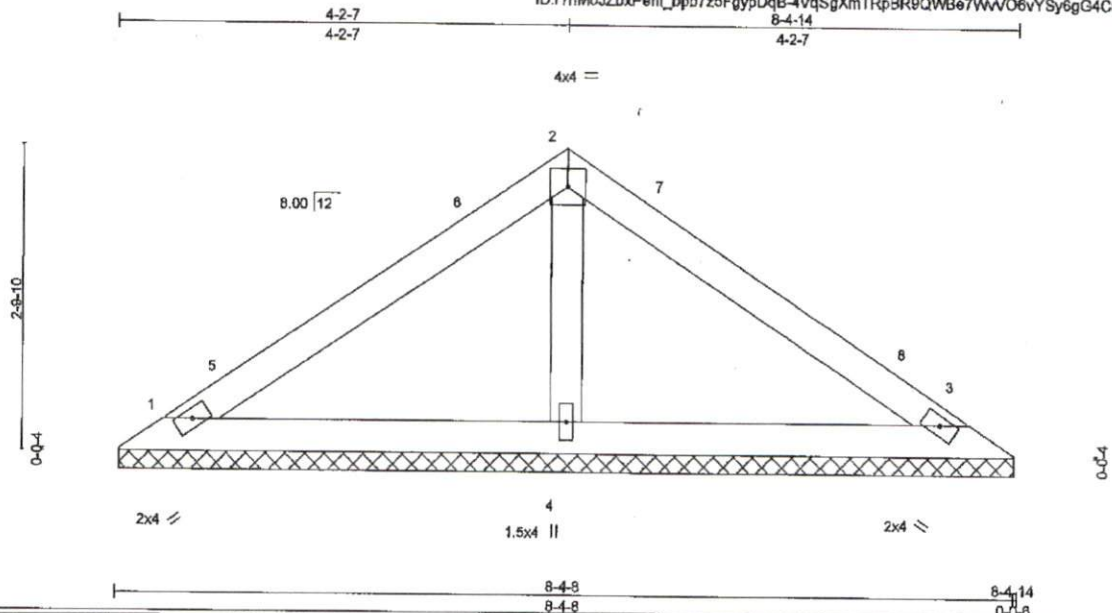
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 ANSITPH1 Quality Criteria, DBS-89 and BCB1 Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

TRENCO
 ENGINEERING BY
 A Mitek Affiliate

818 Soundside Road
 Edenton, NC 27832

Job BURKE_RF	Truss V1	Truss Type Valley	Qty 1	Ply 1	LGI Homes E12536188
-----------------	-------------	----------------------	----------	----------	------------------------

Builders FirstSource, Albemarle, NC 28001
 Job Reference (optional)
 8.220 s Nov 16 2018 MITek Industries, Inc. Tue Dec 18 12:52:50 2018 Page 1
 ID:r7hMoJZbxPenL_bpb7z5FgypDqB-4VqSgXmTRpBR9QWB67WVVO6vYSy6gG4CuMDKPWY7jpx



Scale = 1:19.8

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.14	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 29 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

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

REACTIONS. (lb/size) 1=140/8-4-2, 3=140/8-4-2, 4=248/8-4-2
 Max Horz 1=48(LC 10)
 Max Uplift 1=19(LC 14), 3=25(LC 15)
 Max Grav 1=181(LC 2), 3=181(LC 2), 4=274(LC 2)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-2-7, Exterior(2) 4-2-7 to 7-2-7, Interior(1) 7-2-7 to 7-11-1 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp B; Partially Exp.; Cl=1.10
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 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.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.



December 18, 2018

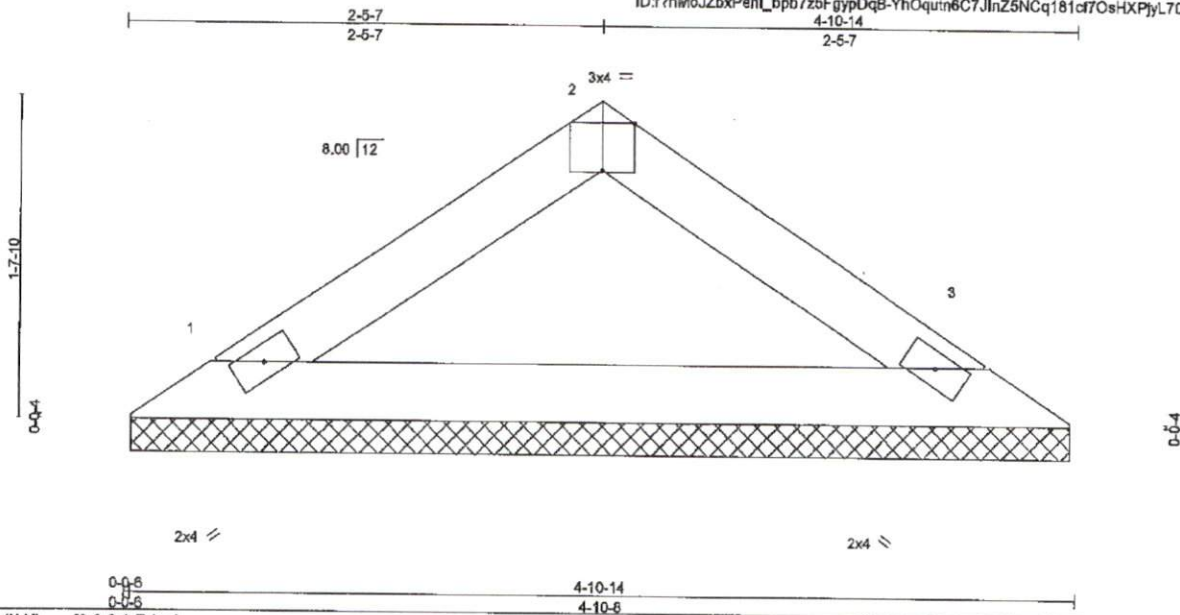
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANSITP1 Quality Criteria, DSB-89 and BCB1 Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY TRENCO
 A MITek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	LGJ Homes	E12536189
BURKE_RF	V2	Valley	1	1		

Builders FirstSource, Albemarle, NC 28001

8.220 s Nov 16 2018 MITek Industries, Inc. Tue Dec 18 12:52:51 2018 Page 1
 ID:r?hMoJZbxPenL_bpb7z5FgypDqB-YhOqum6CTJlnZ5NCq181cd7OsHXPyL70yuyyy7jpw



Scale = 1:10.9

Plate Offsets (X,Y)-- [2:0-2-0,Edge]		4-10-6	
LOADING (psf)	SPACING-	CSI,	DEFL.
TCLL (roof) 20.0	2-0-0	TC 0.07	In (loc) l/d/defl L/d
Snow (P/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.19	Vert(LL) n/a - n/a 999
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a
BCDL 10.0	Code IRC2015/TPI2014		
			PLATES GRIP
			MT20 244/190
			Weight: 14 lb FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2

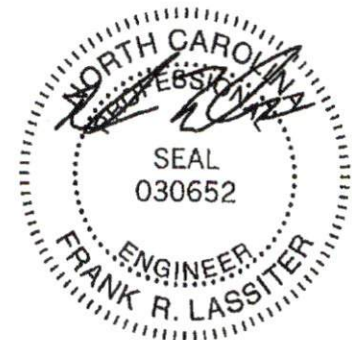
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-10-14 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=140/4-10-2, 3=140/4-10-2
 Max Horz 1=25(LC 12)
 Max Uplift 1=3(LC 14), 3=3(LC 15)
 Max Grav 1=158(LC 2), 3=158(LC 2)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=26ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 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.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(e) 1 and 3. This connection is for uplift only and does not consider lateral forces.



December 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 10/03/2016 BEFORE USE.

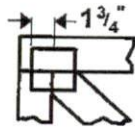
Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 ANS/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.

ENGINEERING BY
TRENCO
 A Mitek Affiliate

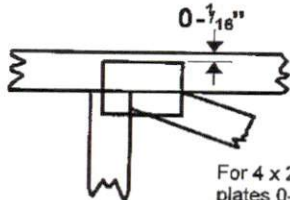
816 Soundside Road
 Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



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

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

PLATE SIZE

4 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

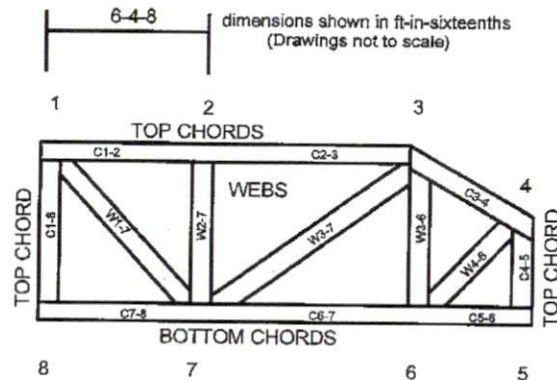


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: 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.

© 2012 MiTek® All Rights Reserved



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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

ROOF TRUSS NOTES:

DO NOT CUT, DRILL, NOTCH, OR OTHERWISE DAMAGE TRUSSES. Consult your SPS Representative for assistance PRIOR TO modifying any truss.

Expansión - (NO CORTE, PERFORO, HAGA BUENAS O DAÑE DE CUALQUIER OTRA MANERA LAS TRUSSAS (CORCHAS DE MADERA). Contáctese a su representante de SPS para asistencia ANTES de realizar cualquier modificación.)

1. This Truss Placement Diagram is intended to serve as a guide for truss installation. This Diagram has been prepared by a Truss Technician and is not an engineered drawing.

2. The responsibilities of the Owner, Building Designer, Contractor, Truss Designer, and Truss Manufacturer shall be as defined by the TPI 1 National Standard.

3. The wood components shown on this diagram are to be used in dry service (moisture content 19%) and non-toxic environmental applications. The metal plates and hangers are galvanized to the G90 Standard unless noted otherwise.

4. Refer to the Truss Design Drawings for specific information about each individual truss design.

5. The Truss Technician shall provide Truss-to-Truss Connection Requirements. Any special or other connection shall be the responsibility of the Building Designer.

6. The Truss Placement Diagram and Truss Design Drawings are the property of Builders FirstSource and may not be copied or reproduced in part or in total under any circumstances without prior written authorization.

7. In some cases, field framing may be required to achieve the final appearance shown on the Construction Documents.

8. Field framing, including valley rafters, installed over roof trusses shall have a lower brace from the rafter to the truss top chord at intervals of 48" on center (O.C.) or less. Stagger knee braces from adjacent rafters such that the load is distributed uniformly over multiple truss top chords and not concentrated at one location or more on one truss.

9. Truss Top Chords shall be fully sheathed or have lateral bracing (rafters) spaced at 24" O.C. or less. Truss Bottom Chord bracing shall not exceed the modulus shown on the Truss Design Drawing. Field framed bottom chord floor or ceiling attachments shall be spaced at 24" O.C. or less. Proper bracing prevents buckling of individual truss members due to design loads.

10. The Placement Diagram is based upon the supporting structure being structurally adequate, dimensionally correct, square, plumb, and level to adequately support the trusses. The foundation design, structural member sizing, load transfer, bearing conditions, and the structure's compliance with the applicable building code are the responsibility of the Owner, Building Designer, and Contractor.

11. If Pigeonhole Trusses are included in this project, refer to the Metal Pigeonhole Connection Detail applicable for the project details and wind load category.

12. The Contractor shall follow the SGCA TTB Partition Separation Prevention and Solutions for truss attachment to non-load bearing walls and carefully complete these details to avoid gypsum wall board related issues.

WARNING:

TRUSSES MUST BE BRACED DURING INSTALLATION. FAILURE TO DO SO MAY RESULT IN INJURY OR DEATH.

Expansión - (TRUSSAS (CORCHAS) DEBERÁN FICER UN SOPORTE DURANTE LA INSTALACION. NO HACERLO PODRIA RESULTAR EN LESIONES O MUERTE.)

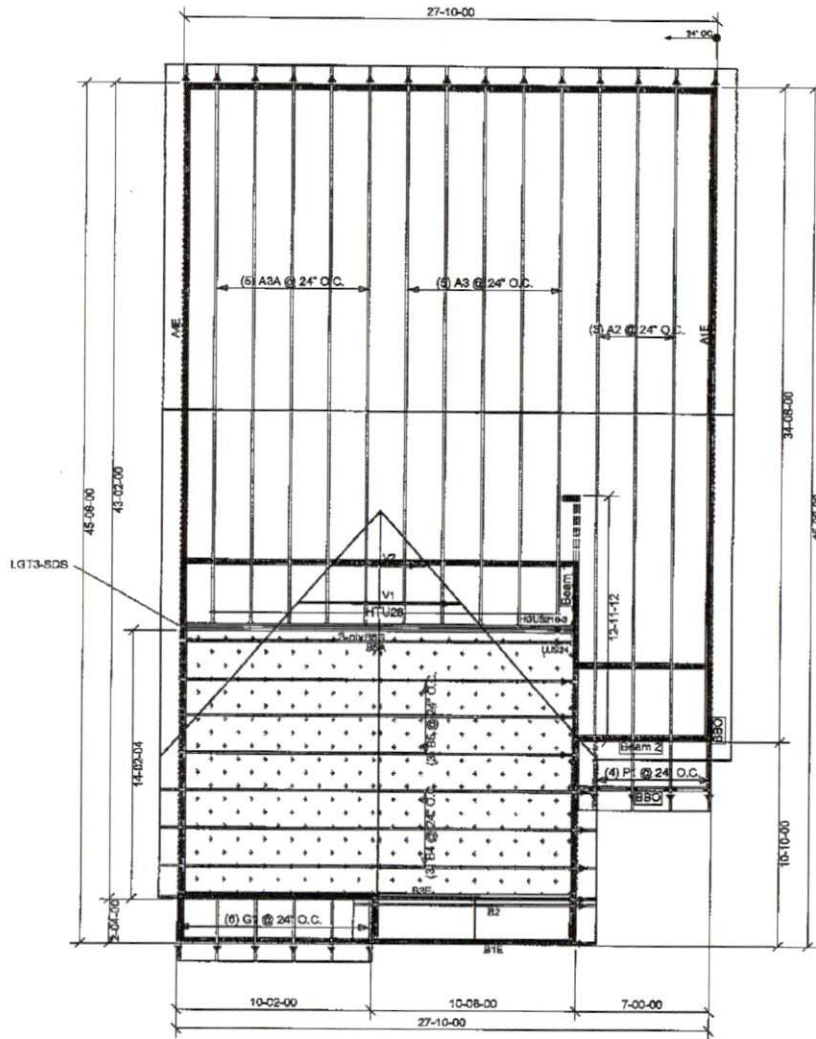
1. Trusses shall be installed in a safe manner meeting all code, local, OSHA, TPI, and BCS Specifications. Failure to follow these specifications may result in injury or death.

2. Buildings under construction are vulnerable to high winds and present a possible safety hazard. The Contractor is responsible for recognizing adverse weather conditions and shall take appropriate action to prevent injury or death.

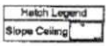
3. BCS INSTRUCTIONS SHALL BE FOLLOWED:

- BCS-01 = Safe Truss Handling and Installation
 - BCS-02 = Installation and Temporary Restraints
 - BCS-03 = Permanent Restraints
 - BCS-04 = Safe Construction Loading
 - BCS-05 = Truss Damage and Modification Guidelines
 - BCS-07 = Floor Truss Installation
 - BCS-08 = Tie-Back Connections
 - BCS-09 = Multi-Ply Girders
 - BCS-10 = Post Frame Truss Installation
 - BCS-11 = Fall Protection
4. Follow TPI Requirements for Long Span Trusses (p.67)

TOTAL ROOF AREA
1577.24 SQ FT



Products				
Qty	Product	Length	Plot/D	
2	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	10-00-00	Beam 1	



Truss Connector Total List			
Qty	Product	Manuf	
1	HGUS210-3	Simpson	
1	LGT3-SDS	Simpson	
10	HTU26	Simpson	
1	LUS24	Simpson	

Until the building is completely enclosed, the trusses may be unstable and present a safety hazard. Truss instability may increase with building width, height, and length. Buildings under construction are vulnerable to high winds and present a possible safety hazard. The Contractor is responsible for recognizing adverse weather conditions and take prompt and appropriate action to prevent injury or death. Builders FirstSource is not responsible for the design of the building. Truss design shall be the responsibility of the Building Designer and Contractor.

No Scale

Customer Name: LGI Homes
Subdivision: Avery Pond
Lot#: 197
Plan Name: Burke

Builder's FirstSource
Albemarle, NC

Revisions:

Drawn By: JEFF BURRIS
DATE: 1/17/2019
Page Number: 1 of 1

File Name: 1624259